

SUPPLEMENTAL MATERIAL

Table S1. Baseline NPX values (arbitrary units) and limit of detection (LoD) of proximity extension assay (PEA) biomarkers in the identification cohort.

Variable		UniProt No.	No	Ischemic stroke/SE	LoD
ACE2	Angiotensin-converting enzyme 2	Q9BYF1	3.9 (3.5 -- 4.4) [203]	4.0 (3.6 -- 4.5) [12]	1.1
ADAM-TS13	A disintegrin and metalloproteinase with thrombospondin motifs 13	Q76LX8	5.2 (5.1 -- 5.3) [203]	5.2 (5.1 -- 5.2) [12]	1.4
ADM	ADM	P35318	7.5 (7.2 -- 7.8) [203]	7.6 (7.3 -- 7.9) [12]	1.9
AGRP	Agouti-related protein	O00253	3.2 (3.0 -- 3.5) [203]	3.3 (3.0 -- 3.6) [12]	0.7
AMBP	Protein AMBP	P02760	7.1 (7.0 -- 7.2) [203]	7.1 (7.0 -- 7.3) [12]	1.3
ANG-1	Angiopoietin-1	Q15389	8.9 (8.1 -- 9.6) [203]	9.0 (8.1 -- 9.8) [12]	2.2
BMP-6	Bone morphogenetic protein 6	P22004	5.7 (5.4 -- 6.0) [203]	5.8 (5.5 -- 6.1) [12]	1.4
BNP	Natriuretic peptides B	P16860	4.0 (3.0 -- 4.9) [203]	4.5 (3.7 -- 5.4) [12]	1.6
CA5A	Carbonic anhydrase 5A, mitochondrial	P35218	2.6 (2.1 -- 3.3) [203]	2.7 (2.2 -- 3.3) [12]	1.3
CCL17	C-C motif chemokine 17	Q92583	6.9 (6.3 -- 7.6) [203]	6.9 (6.3 -- 7.7) [12]	1.7
CCL3	C-C motif chemokine 3	P10147	2.8 (2.5 -- 3.1) [203]	2.9 (2.6 -- 3.2) [12]	1.6
CD4	T-cell surface glycoprotein CD4	P01730	4.7 (4.5 -- 4.9) [203]	4.7 (4.5 -- 5.0) [12]	1.3
CD40-L	CD40 ligand	P29965	4.1 (3.5 -- 5.1) [203]	4.2 (3.6 -- 5.1) [12]	1.2
CD84	SLAM family member 5	Q9UIB8	5.3 (5.1 -- 5.6) [203]	5.4 (5.1 -- 5.7) [12]	1.4
CEACAM8	Carcinoembryonic antigenrelated cell adhesion molecule 8	P31997	4.2 (3.9 -- 4.7) [203]	4.3 (3.9 -- 4.7) [12]	1.6
CTRC	Chymotrypsin C	Q99895	10.2 (9.7 -- 10.7) [203]	10.1 (9.7 -- 10.6) [12]	2.6
CTSL1	Cathepsin L1	P07711	6.1 (5.7 -- 6.4) [203]	6.1 (5.9 -- 6.6) [12]	0.9
CXCL1	C-X-C motif chemokine 1	P09341	8.3 (7.4 -- 8.9) [203]	8.2 (7.5 -- 8.9) [12]	2.7
DCN	Decorin	P07585	5.4 (5.3 -- 5.6) [203]	5.5 (5.3 -- 5.6) [12]	3.6
DECR1	2,4-dienoyl-CoA reductase, mitochondrial	Q16698	3.1 (2.5 -- 3.8) [203]	3.1 (2.5 -- 4.0) [12]	2.0
Dkk-1	Dickkopf-related protein 1	O94907	8.9 (8.5 -- 9.3) [203]	9.0 (8.6 -- 9.4) [12]	2.1
FABP2	Fatty acid-binding protein, intestinal	P12104	9.2 (8.6 -- 9.7) [203]	9.2 (8.6 -- 9.7) [12]	2.1
FGF-21	Fibroblast growth factor 21	Q9NSA1	7.7 (6.8 -- 8.6) [203]	7.9 (7.0 -- 8.8) [12]	2.6

FGF-23	Fibroblast growth factor 23	Q9GZV9	4.3 (3.8 -- 4.8) [203]	4.3 (4.0 -- 4.9) [12]	1.4
FS	Follistatin	P19883	12.0 (11.7 -- 12.3) [203]	12.0 (11.8 -- 12.3) [12]	3.6
Gal-9	Galectin-9	O00182	7.0 (6.8 -- 7.2) [203]	7.0 (6.8 -- 7.2) [12]	1.5
GDF-2	Growth/differentiation factor 2	Q9UK05	4.6 (4.2 -- 4.9) [203]	4.6 (4.2 -- 5.0) [12]	1.5
GH	Growth hormone	P01241	8.5 (7.0 -- 10.1) [203]	8.9 (7.6 -- 10.1) [12]	1.8
GIF	Gastric intrinsic factor	P27352	5.6 (5.0 -- 6.2) [203]	5.5 (4.8 -- 6.1) [12]	1.4
GLO1	Lactoylglutathione lyase	Q04760	6.1 (5.7 -- 6.7) [203]	6.2 (5.7 -- 6.7) [12]	1.9
GT	Gastrotropin	P51161	1.9 (1.6 -- 2.4) [203]	1.9 (1.6 -- 2.4) [12]	1.2
HAOX1	Hydroxyacid oxidase 1	Q9UJM8	4.6 (3.7 -- 5.7) [203]	4.7 (3.7 -- 5.7) [12]	1.1
HB-EGF	Proheparin-binding EGF-like growth factor	Q99075	5.8 (5.6 -- 6.1) [203]	5.9 (5.6 -- 6.1) [12]	0.8
HO-1	Heme oxygenase 1	P09601	11.7 (11.4 -- 11.9) [203]	11.6 (11.4 -- 12.0) [12]	4.4
hOSCAR	Osteoclast-associated immunoglobulin-like receptor	Q8IYS5	9.8 (9.6 -- 9.9) [203]	9.8 (9.6 -- 9.9) [12]	3.0
HSP 27	Heat shock 27 kDa protein	P04792	10.2 (9.6 -- 10.6) [203]	10.2 (9.5 -- 10.6) [12]	2.4
IDUA	Alpha-L-iduronidase	P35475	4.6 (4.1 -- 5.0) [203]	4.5 (4.1 -- 4.9) [12]	1.6
Ig G Fc receptor II-b	Low affinity immunoglobulin gamma Fc region receptor II-b	P31994	1.7 (1.4 -- 2.1) [203]	1.8 (1.4 -- 2.1) [12]	1.3
IL-17D	Interleukin-17D	Q8TAD2	2.7 (2.6 -- 2.9) [203]	2.8 (2.6 -- 2.9) [12]	1.2
IL-18	Interleukin-18	Q14116	8.7 (8.4 -- 9.1) [203]	8.8 (8.3 -- 9.2) [12]	2.5
IL-1ra	Interleukin-1 receptor antagonist protein	P18510	4.5 (4.1 -- 5.0) [203]	4.7 (4.2 -- 5.1) [12]	2.4
IL-4RA	Interleukin-4 receptor subunit alpha	P24394	3.2 (2.9 -- 3.5) [203]	3.3 (3.0 -- 3.6) [12]	1.2
IL-6	Interleukin-6	P05231	4.0 (3.5 -- 4.6) [203]	4.1 (3.6 -- 4.5) [12]	1.3
IL16	Pro-interleukin-16	Q14005	5.3 (5.0 -- 5.6) [203]	5.3 (5.0 -- 5.7) [12]	1.0
IL1RL2	Interleukin-1 receptor-like 2	Q9HB29	4.6 (4.3 -- 4.9) [203]	4.7 (4.3 -- 4.9) [12]	1.5
IL-27	Interleukin-27	Q8NEV9, Q14213	4.5 (4.2 -- 4.7) [203]	4.5 (4.3 -- 4.8) [12]	1.9
ITGB1BP2	Melusin	Q9UKP3	3.0 (3.0 -- 4.5) [203]	3.1 (3.0 -- 4.8) [12]	3.0
LEP	Leptin	P41159	6.7 (6.0 -- 7.4) [203]	6.7 (5.9 -- 7.3) [12]	2.2
LOX-1	Lectin-like oxidized LDL receptor 1	P78380	6.9 (6.5 -- 7.3) [203]	6.9 (6.6 -- 7.4) [12]	2.7
LPL	Lipoprotein lipase	P06858	9.5 (9.2 -- 9.8) [203]	9.6 (9.3 -- 9.8) [12]	2.7

MARCO	Macrophage receptor MARCO	Q9UEW3	6.2 (6.1 -- 6.4) [203]	6.2 (6.1 -- 6.4) [12]	1.3
MERTK	Tyrosine-protein kinase Mer	Q12866	4.5 (4.2 -- 4.7) [203]	4.5 (4.3 -- 4.7) [12]	1.6
MMP-12	Matrix metalloproteinase-12	P39900	7.8 (7.3 -- 8.3) [203]	7.9 (7.5 -- 8.5) [12]	1.9
MMP-7	Matrix metalloproteinase-7	P09237	7.3 (6.3 -- 8.1) [203]	7.5 (6.5 -- 8.4) [12]	3.3
NEMO	NF-kappa-B essential modulator	Q9Y6K9	4.2 (3.7 -- 5.0) [203]	4.2 (3.7 -- 5.2) [12]	1.9
PAPPA	Pappalysin-1	Q13219	3.2 (2.9 -- 3.6) [203]	3.3 (2.9 -- 3.6) [12]	1.5
PAR-1	Proteinase-activated receptor 1	P25116	7.4 (7.1 -- 7.7) [203]	7.5 (7.2 -- 7.8) [12]	1.8
PARP-1	Poly [ADP-ribose] polymerase 1	P09874	3.4 (3.0 -- 3.8) [203]	3.5 (3.0 -- 3.9) [12]	1.9
PD-L2	Programmed cell death 1 ligand 2	Q9BQ51	3.1 (2.9 -- 3.3) [203]	3.2 (2.9 -- 3.4) [12]	1.9
PDGF subunit B	Platelet-derived growth factor subunit B	P01127	8.9 (8.1 -- 9.6) [203]	9.0 (8.2 -- 9.6) [12]	1.6
PiGR	Polymeric immunoglobulin receptor	P01833	6.5 (6.4 -- 6.5) [203]	6.5 (6.4 -- 6.5) [12]	1.8
PIGF	Placenta growth factor	P49763	8.1 (7.9 -- 8.3) [203]	8.2 (8.0 -- 8.4) [12]	2.7
PRELP	Prolargin	P51888	6.7 (6.6 -- 6.8) [203]	6.7 (6.6 -- 6.9) [12]	1.5
Protein BOC	Brother of CDO	Q9BWW1	4.9 (4.7 -- 5.0) [203]	4.8 (4.7 -- 5.0) [12]	1.2
PRSS27	Serine protease 27	Q9BQR3	8.1 (7.8 -- 8.4) [203]	8.2 (7.8 -- 8.5) [12]	2.0
PRSS8	Prostasin	Q16651	9.2 (9.0 -- 9.5) [203]	9.3 (9.1 -- 9.5) [12]	1.4
PSGL-1	P-selectin glycoprotein ligand 1	Q14242	5.0 (4.8 -- 5.1) [203]	5.0 (4.8 -- 5.1) [12]	1.3
PTX3	Pentraxin-related protein PTX3	P26022	3.7 (3.4 -- 4.0) [203]	3.7 (3.4 -- 4.0) [12]	1.7
RAGE	Receptor for advanced glycosylation end products	Q15109	5.3 (5.0 -- 5.6) [203]	5.4 (5.1 -- 5.7) [12]	1.1
REN	Renin	P00797	7.5 (6.8 -- 8.1) [203]	7.3 (6.7 -- 8.0) [12]	2.0
SCF	Stem cell factor	P21583	9.7 (9.4 -- 9.9) [203]	9.7 (9.4 -- 9.9) [12]	2.6
SERPINA12	Serpin A12	Q8IW75	3.6 (3.0 -- 4.4) [203]	3.7 (3.1 -- 4.4) [12]	3.0
SLAMF7	SLAM family member 7	Q9NQ25	2.4 (2.4 -- 2.8) [203]	2.4 (2.4 -- 2.9) [12]	2.4
SOD2	Superoxide dismutase [Mn], mitochondrial	P04179	8.9 (8.7 -- 9.0) [203]	8.8 (8.7 -- 9.0) [12]	1.8
SORT1	Sortilin	Q99523	6.4 (6.2 -- 6.5) [203]	6.4 (6.2 -- 6.6) [12]	1.6
SPON2	Spondin-2	Q9BUD6	9.0 (8.9 -- 9.1) [255]	9.0 (8.9 -- 9.1) [18]	2.1
SRC	Proto-oncogene tyrosine-protein kinase Src	P12931	5.5 (4.4 -- 7.0) [203]	5.6 (4.4 -- 6.8) [12]	1.4
STK4	Serine/threonine-protein kinase 4	Q13043	1.9 (1.2 -- 3.5) [203]	1.9 (1.2 -- 3.7) [12]	1.2
TF	Tissue factor	P13726	5.8 (5.6 -- 6.0) [203]	5.8 (5.6 -- 6.1) [12]	1.3

TGM2	Protein-glutamine gamma-glutamyltransferase 2	P21980	8.3 (7.8 -- 8.8) [203]	8.4 (7.9 -- 8.9) [12]	1.9
THBS2	Thrombospondin-2	P35442	6.0 (5.9 -- 6.2) [271]	6.1 (5.9 -- 6.3) [18]	1.1
THPO	Thrombopoietin	P40225	2.1 (1.9 -- 2.3) [203]	2.1 (1.9 -- 2.4) [12]	0.7
TIE2	Angiopoietin-1 receptor	Q02763	8.1 (7.9 -- 8.3) [203]	8.1 (7.9 -- 8.3) [12]	2.0
TM	Thrombomodulin	P07204	8.4 (8.2 -- 8.7) [203]	8.5 (8.2 -- 8.7) [12]	2.3
TIM	T-cell immunoglobulin mucin receptor 1	Q96D42	10.0 (9.5 -- 10.6) [203]	10.2 (9.7 -- 10.8) [12]	3.2
TNFRSF10A	Tumor necrosis factor receptor superfamily member 10A	O00220	3.7 (3.4 -- 3.9) [203]	3.8 (3.5 -- 4.0) [12]	1.7
TNFRSF11A	Tumor necrosis factor receptor superfamily member 11A	Q9Y6Q6	5.8 (5.5 -- 6.2) [203]	5.9 (5.5 -- 6.3) [12]	1.7
TNFRSF13B	Tumor necrosis factor receptor superfamily member 13B	O14836	8.4 (8.1 -- 8.7) [203]	8.5 (8.2 -- 8.8) [12]	2.3
TRAIL-R2	TNF-related apoptosis-inducing ligand receptor 2	O14763	5.8 (5.5 -- 6.1) [203]	5.9 (5.6 -- 6.2) [12]	1.9
VEGF-D	Vascular endothelial growth factor D	O43915	7.4 (7.2 -- 7.7) [203]	7.5 (7.2 -- 7.8) [12]	1.3
VSIG2	V-set and immunoglobulin domain-containing protein 2	Q96IQ7	4.0 (3.6 -- 4.3) [203]	4.1 (3.7 -- 4.4) [12]	1.8
XCL1	Lymphotactin	P47992	5.4 (5.0 -- 5.7) [203]	5.5 (5.1 -- 5.8) [12]	1.4
ALCAM	CD166 antigen	Q13740	4.9 (4.7 -- 5.1) [23]	4.9 (4.7 -- 5.1) [0]	1.7
AP-N	Aminopeptidase N	P15144	5.1 (4.9 -- 5.3) [23]	5.2 (5.0 -- 5.4) [0]	0.8
AXL	Tyrosine-protein kinase receptor UFO	P30530	8.1 (7.9 -- 8.4) [23]	8.2 (8.0 -- 8.4) [0]	1.9
AZU1	Azurocidin	P20160	3.0 (2.5 -- 3.7) [23]	3.1 (2.6 -- 3.7) [0]	2.5
BLM hydrolase	Bleomycin hydrolase	Q13867	5.7 (5.5 -- 6.0) [162]	5.8 (5.5 -- 6.1) [8]	5.4
CASP-3	Caspase-3	P42574	6.5 (5.7 -- 7.8) [23]	6.6 (5.8 -- 7.8) [0]	3.3
CCL15	C-C motif chemokine 15	Q16663	7.3 (7.0 -- 7.7) [23]	7.4 (7.1 -- 7.8) [0]	2.2
CCL16	C-C motif chemokine 16	O15467	6.1 (5.8 -- 6.5) [23]	6.3 (6.0 -- 6.6) [0]	0.4
CCL22	C-C motif chemokine 22	O00175	2.3 (2.0 -- 2.8) [23]	2.4 (2.0 -- 2.7) [0]	1.3
CCL24	C-C motif chemokine 24	O00175	5.8 (5.2 -- 6.4) [23]	5.8 (5.3 -- 6.4) [0]	2.5
CD163	Scavenger receptor cysteine-rich type 1 protein M130	Q86VB7	7.9 (7.6 -- 8.2) [23]	8.0 (7.7 -- 8.3) [0]	2.3
CD93	Complement component C1q receptor	Q9NPY3	9.9 (9.6 -- 10.1) [23]	9.9 (9.7 -- 10.2) [0]	2.3
CDH5	Cadherin-5	Q9NPY3	3.8 (3.5 -- 4.0) [23]	3.8 (3.6 -- 4.1) [0]	1.2

CHI3L1	Chitinase-3-like protein 1	P36222	7.4 (6.8 -- 8.2) [23]	7.6 (6.9 -- 8.4) [0]	3.3
CHIT1	Chitotriosidase-1	Q13231	3.4 (2.6 -- 4.1) [23]	3.5 (2.5 -- 4.4) [0]	-1.2
CNTN1	Contactin-1	Q12860	3.2 (3.0 -- 3.4) [23]	3.2 (3.0 -- 3.4) [0]	0.5
COL1A1	Collagen alpha-1(I) chain	P02452	2.5 (2.2 -- 2.8) [23]	2.5 (2.2 -- 2.8) [0]	-0.1
CPA1	Carboxypeptidase A1	P15085	4.6 (4.2 -- 5.1) [23]	4.6 (4.2 -- 5.1) [0]	0.9
CPB1	Carboxypeptidase B	P15086	4.1 (3.7 -- 4.6) [23]	4.2 (3.8 -- 4.6) [0]	0.6
CSTB	Cystatin-B	P04080	5.1 (4.8 -- 5.6) [93]	5.2 (4.9 -- 5.7) [3]	4.1
CTSD	Cathepsin D	P07339	4.3 (4.0 -- 4.7) [23]	4.4 (4.1 -- 4.8) [0]	3.5
CTSZ	Cathepsin Z	Q9UBR2	5.0 (4.8 -- 5.3) [23]	5.1 (4.8 -- 5.4) [0]	-0.1
CXCL16	C-X-C motif chemokine 16	Q9H2A7	6.3 (6.1 -- 6.5) [23]	6.3 (6.1 -- 6.5) [0]	0.7
DLK-1	Protein delta homolog 1	P80370	5.4 (5.0 -- 5.8) [23]	5.4 (5.0 -- 5.8) [0]	0.7
EGFR	Epidermal growth factor receptor	P00533	1.9 (1.8 -- 2.1) [23]	1.9 (1.8 -- 2.1) [0]	-0.1
Ep-CAM	Epithelial cell adhesion molecule	P16422	4.0 (3.5 -- 4.7) [23]	4.1 (3.6 -- 4.7) [0]	0.9
EPHB4	Ephrin type-B receptor 4	P54760	2.3 (2.1 -- 2.5) [23]	2.3 (2.1 -- 2.5) [0]	1.4
FABP4	Fatty acid-binding protein, adipocyte	P15090	5.1 (4.5 -- 5.7) [23]	5.3 (4.6 -- 5.8) [0]	1.2
FAS	Tumor necrosis factor receptor superfamily member 6	P25445	5.0 (4.8 -- 5.2) [23]	5.1 (4.9 -- 5.3) [0]	1.3
Gal-3	Galectin-3	P17931	5.7 (5.4 -- 5.9) [23]	5.8 (5.5 -- 6.0) [0]	4.0
Gal-4	Galectin-4	P56470	3.8 (3.4 -- 4.2) [23]	3.9 (3.5 -- 4.2) [0]	0.9
GDF-15	Growth/differentiation factor 15	Q99988	5.3 (4.9 -- 5.8) [23]	5.6 (5.2 -- 5.9) [0]	1.9
GRN	Granulins	P28799	3.5 (3.3 -- 3.7) [23]	3.5 (3.4 -- 3.7) [0]	-0.5
ICAM-2	Intercellular adhesion molecule 2	P13598	5.3 (5.0 -- 5.5) [23]	5.3 (5.0 -- 5.6) [0]	1.1
IGFBP-1	Insulin-like growth factor-binding protein 1	P08833	5.4 (4.4 -- 6.2) [23]	5.5 (4.5 -- 6.4) [0]	1.4
IGFBP-2	Insulin-like Growth Factor-Binding Protein 2	P18065	8.1 (7.5 -- 8.5) [23]	8.1 (7.7 -- 8.7) [0]	1.2
IGFBP-7	Insulin-like growth factor-binding protein 7	Q16270	4.6 (4.3 -- 4.9) [23]	4.7 (4.5 -- 5.0) [0]	0.8
IL-17RA	Interleukin-17 receptor A	Q96F46	4.2 (3.8 -- 4.5) [23]	4.2 (3.9 -- 4.5) [0]	1.5
IL-18BP	Interleukin-18-binding protein	O95998	6.7 (6.5 -- 7.0) [23]	6.8 (6.6 -- 7.1) [0]	1.2
IL-1RT1	Interleukin-1 receptor type 1	P14778	6.6 (6.4 -- 6.8) [23]	6.7 (6.4 -- 6.8) [0]	1.7
IL-1RT2	Interleukin-1 receptor type 2	P27930	5.2 (5.0 -- 5.5) [23]	5.2 (5.0 -- 5.4) [0]	1.8
IL-6RA	Interleukin-6 receptor subunit alpha	P08887	11.0 (10.7 -- 11.3) [23]	11.0 (10.7 -- 11.3) [0]	4.0

IL2-RA	Interleukin-2 receptor subunit alpha	P01589	4.2 (3.9 -- 4.6) [23]	4.4 (4.0 -- 4.7) [0]	1.1
ITGB2	Integrin beta-2	P05107	5.7 (5.5 -- 6.0) [23]	5.7 (5.5 -- 6.0) [0]	1.7
JAM-A	Junctional adhesion molecule A	Q9Y624	4.4 (4.1 -- 4.8) [23]	4.5 (4.2 -- 4.9) [0]	1.2
KLK6	Kallikrein-6	Q92876	3.5 (3.5 -- 3.6) [23]	3.5 (3.5 -- 3.7) [0]	3.5
LDL receptor	Low-density lipoprotein receptor	P01130	4.6 (4.2 -- 5.0) [23]	4.7 (4.3 -- 5.0) [0]	0.9
LTBR	Lymphotoxin-beta receptor	P36941	3.9 (3.7 -- 4.1) [23]	4.0 (3.7 -- 4.3) [0]	1.1
MB	Myoglobin	P02144	7.3 (6.9 -- 7.7) [23]	7.3 (6.9 -- 7.7) [0]	1.5
MCP-1	Monocyte chemotactic protein 1	P13500	3.4 (3.2 -- 3.6) [23]	3.4 (3.2 -- 3.6) [0]	0.6
MEPE	Matrix extracellular phosphoglycoprotein	Q9NQ76	3.4 (3.1 -- 3.7) [23]	3.4 (3.1 -- 3.8) [0]	1.6
MMP-2	Matrix metalloproteinase-2	P08253	4.1 (3.9 -- 4.4) [23]	4.2 (4.0 -- 4.4) [0]	0.2
MMP-3	Matrix metalloproteinase-3	P08254	7.5 (7.0 -- 7.9) [23]	7.6 (7.1 -- 8.0) [0]	2.1
MMP-9	Matrix metalloproteinase-9	P14780	4.2 (3.7 -- 4.7) [23]	4.3 (3.7 -- 4.7) [0]	1.6
MPO	Myeloperoxidase	P05164	4.4 (4.1 -- 4.7) [23]	4.4 (4.1 -- 4.7) [0]	2.4
NOTCH-3	Neurogenic locus notch homolog protein 3	Q9UM47	4.4 (4.1 -- 4.7) [23]	4.4 (4.2 -- 4.8) [0]	1.7
NT-proBNP	N-terminal prohormone brain natriuretic peptide	NA	2.8 (2.1 -- 3.4) [23]	3.2 (2.6 -- 3.7) [0]	1.5
OPG	Osteoprotegerin	O00300	3.6 (3.4 -- 3.9) [23]	3.7 (3.5 -- 4.0) [0]	0.8
OPN	Osteopontin	P10451	5.4 (5.0 -- 5.7) [23]	5.6 (5.2 -- 5.9) [0]	0.9
PAI	Plasminogen activator inhibitor 1	P05121	6.2 (5.6 -- 6.9) [23]	6.4 (5.7 -- 6.9) [0]	1.2
PCSK9	Proprotein convertase subtilisin/kexin type 9	Q8NBP7	2.9 (2.6 -- 3.2) [23]	2.9 (2.7 -- 3.1) [0]	1.4
PDGF subunit A	Platelet-derived growth factor subunit A	P04085	3.1 (2.4 -- 3.7) [23]	3.1 (2.5 -- 3.9) [0]	0.0
PECAM-1	Platelet endothelial cell adhesion molecule	P16284	4.8 (4.5 -- 5.0) [23]	4.8 (4.6 -- 5.0) [0]	0.7
PGLYRP1	Peptidoglycan recognition protein 1	O75594	7.7 (7.4 -- 8.0) [23]	7.8 (7.4 -- 8.2) [0]	1.9
PI3	Elafin	P19957	4.2 (3.7 -- 4.6) [89]	4.3 (3.9 -- 4.9) [6]	2.8
PLC	Perlecan	P98160	6.9 (6.7 -- 7.2) [23]	7.0 (6.8 -- 7.3) [0]	3.4
PON3	Paraoxonase	Q15166	5.7 (5.3 -- 6.1) [23]	5.6 (5.2 -- 6.0) [0]	1.2
PRTN3	Myeloblastin	P24158	4.7 (4.4 -- 5.1) [23]	4.7 (4.4 -- 5.2) [0]	3.9
PSP-D	Pulmonary surfactant-associated protein D	P35247	2.8 (2.3 -- 3.3) [23]	2.8 (2.3 -- 3.2) [0]	1.4
RARRES2	Retinoic acid receptor responder protein 2	Q99969	12.1 (11.9 -- 12.2) [23]	12.1 (11.9 -- 12.3) [0]	4.5
RETN	Resistin	Q9HD89	6.9 (6.5 -- 7.2) [23]	7.0 (6.6 -- 7.4) [0]	2.5

SCGB3A2	Secretoglobin family 3A member 2	Q96PL1	2.6 (2.2 -- 3.2) [23]	2.7 (2.3 -- 3.3) [0]	0.4
SELE	E-selectin	P16581	2.5 (2.1 -- 2.8) [23]	2.5 (2.2 -- 2.8) [0]	0.7
SELP	P-selectin	P16109	9.1 (8.7 -- 9.5) [23]	9.1 (8.7 -- 9.6) [0]	2.5
SHPS-1	Tyrosine-protein phosphatase non- receptor type substrate 1	P78324	4.0 (3.7 -- 4.3) [23]	4.0 (3.7 -- 4.3) [0]	1.5
SPON1	Spondin-1	Q9HCB6	2.3 (2.1 -- 2.5) [23]	2.4 (2.2 -- 2.6) [0]	1.4
ST2	ST2 protein	Q01638	4.2 (3.9 -- 4.6) [23]	4.4 (4.0 -- 4.7) [0]	1.5
t-PA	Tissue-type plasminogen activator	P00750	6.3 (5.9 -- 6.7) [23]	6.4 (6.0 -- 6.8) [0]	1.1
TFF3	Trefoil factor 3	Q07654	5.6 (5.3 -- 6.0) [23]	5.7 (5.4 -- 6.2) [0]	2.9
TFPI	Tissue factor pathway inhibitor	P10646	8.6 (8.3 -- 8.8) [23]	8.6 (8.4 -- 8.9) [0]	1.7
TIMP4	Metalloproteinase inhibitor 4	Q99727	5.2 (4.8 -- 5.5) [23]	5.3 (5.0 -- 5.7) [0]	0.7
TLT-2	Trem-like transcript 2 protein	Q5T2D2	4.2 (3.9 -- 4.5) [23]	4.2 (3.9 -- 4.6) [0]	1.5
TNF-R1	Tumor necrosis factor receptor 1	P19438	5.3 (5.0 -- 5.6) [23]	5.4 (5.1 -- 5.8) [0]	1.2
TNF-R2	Tumor necrosis factor receptor 2	P20333	4.9 (4.6 -- 5.2) [23]	5.0 (4.7 -- 5.4) [0]	1.1
TNFRSF10C	Tumor necrosis factor receptor superfamily member 10C	O14798	6.1 (5.8 -- 6.4) [23]	6.0 (5.7 -- 6.4) [0]	1.5
TNFRSF14	Tumor necrosis factor receptor superfamily member 14	Q92956	5.0 (4.8 -- 5.4) [23]	5.1 (4.9 -- 5.5) [0]	1.3
TNFSF13B	Tumor necrosis factor ligand superfamily member 13B	Q9Y275	6.5 (6.3 -- 6.8) [23]	6.5 (6.3 -- 6.8) [0]	1.6
TR	Transferrin receptor protein 1	P02786	5.2 (4.8 -- 5.6) [23]	5.3 (4.9 -- 5.7) [0]	1.2
TR-AP	Tartrate-resistant acid phosphatase type 5	P13686	5.0 (4.7 -- 5.3) [23]	5.0 (4.7 -- 5.3) [0]	2.7
U-PAR	Urokinase plasminogen activator surface receptor	Q03405	4.8 (4.5 -- 5.1) [23]	4.9 (4.6 -- 5.2) [0]	1.9
uPA	Urokinase-type plasminogen activator	P00749	5.0 (4.8 -- 5.2) [23]	5.0 (4.8 -- 5.3) [0]	1.0
vWF	von Willebrand factor	P04275	6.4 (5.8 -- 7.0) [23]	6.6 (6.1 -- 7.3) [0]	1.4
4E-BP1	Eukaryotic translation initiation factor 4E-binding protein 1	Q13541	8.4 (7.8 -- 9.1) [188]	8.5 (8.0 -- 9.3) [18]	1.4
ADA	Adenosine Deaminase	P00813	4.1 (3.9 -- 4.4) [188]	4.1 (3.9 -- 4.4) [18]	0.3
ARTN	Artemin	Q5T4W7	0.2 (0.2 -- 0.2) [188]	0.2 (0.2 -- 0.2) [18]	0.2
AXIN1	Axin-1	O15169	1.6 (1.4 -- 2.5) [188]	1.6 (1.4 -- 2.7) [18]	1.4
BDNF	Brain-derived neurotrophic factor	P23560	2.4 (2.4 -- 6.2) [188]	2.4 (2.4 -- 5.9) [18]	2.4

Beta-NGF	Beta-nerve growth factor	P01138	1.6 (1.4 -- 1.8) [188]	1.6 (1.5 -- 1.8) [18]	0.8
CASP-8	Caspase 8	Q14790	2.8 (2.4 -- 3.5) [188]	3.0 (2.4 -- 3.7) [18]	1.0
CCL11	Eotaxin-1	P51671	8.1 (7.9 -- 8.4) [188]	8.2 (7.9 -- 8.5) [18]	1.3
CCL19	C-C motif chemokine 19	Q99731	9.4 (9.0 -- 10.0) [188]	9.6 (9.0 -- 10.1) [18]	1.4
CCL20	C-C motif chemokine 20	P78556	6.6 (6.1 -- 7.3) [188]	6.8 (6.1 -- 7.5) [18]	1.8
CCL23	C-C motif chemokine 23	P55773	10.0 (9.7 -- 10.4) [188]	10.1 (9.9 -- 10.4) [18]	1.1
CCL25	C-C motif chemokine 25	O15444	6.9 (6.5 -- 7.3) [188]	6.9 (6.5 -- 7.3) [18]	1.0
CCL28	C-C motif chemokine 28	Q9NRJ3	1.0 (0.8 -- 1.2) [188]	1.1 (0.9 -- 1.3) [18]	0.1
CCL4	C-C motif chemokine 4	P13236	5.8 (5.5 -- 6.2) [188]	5.9 (5.5 -- 6.3) [18]	0.3
CD244	Natural killer cell receptor 2B4	Q9BZW8	6.0 (5.8 -- 6.2) [188]	6.0 (5.8 -- 6.3) [18]	1.7
CD40	CD40L receptor	P25942	9.3 (9.1 -- 9.6) [188]	9.4 (9.2 -- 9.7) [18]	1.3
CD5	T-cell surface glycoprotein CD5	P06127	3.4 (3.2 -- 3.7) [188]	3.5 (3.3 -- 3.8) [18]	-0.4
CD6	T cell surface glycoprotein CD6 isoform	Q8WWJ7	4.0 (3.7 -- 4.2) [188]	4.0 (3.7 -- 4.3) [18]	0.8
CDCP1	CUB domain-containing protein 1	Q9H5V8	3.0 (2.6 -- 3.4) [188]	3.1 (2.7 -- 3.6) [18]	0.0
CSF-1	Macrophage colony-stimulating factor 1	P09603	8.0 (7.8 -- 8.1) [188]	8.0 (7.9 -- 8.1) [18]	0.6
CST5	Cystatin D	P28325	7.0 (6.6 -- 7.4) [188]	7.0 (6.6 -- 7.4) [18]	3.2
CX3CL1	Fractalkine	P78423	5.8 (5.5 -- 6.0) [188]	5.8 (5.5 -- 6.2) [18]	1.6
CXCL10	C-X-C motif chemokine 10	P02778	10.3 (9.8 -- 10.8) [188]	10.4 (10.0 -- 11.0) [18]	2.0
CXCL11	C-X-C motif chemokine 11	O14625	6.9 (6.4 -- 7.5) [188]	7.0 (6.4 -- 7.7) [18]	1.7
CXCL5	C-X-C motif chemokine 5	P42830	10.7 (9.5 -- 11.7) [188]	10.8 (9.6 -- 11.8) [18]	3.7
CXCL6	C-X-C motif chemokine 6	P80162	7.3 (6.8 -- 7.9) [188]	7.4 (6.9 -- 7.9) [18]	1.3
CXCL9	C-X-C motif chemokine 9	Q07325	8.5 (8.0 -- 9.1) [188]	8.6 (8.1 -- 9.2) [18]	1.9
DNER	Delta and Notch-like epidermal growth factor-related receptor	Q8NFT8	7.1 (6.9 -- 7.3) [188]	7.1 (6.9 -- 7.3) [18]	0.6
EN-RAGE	Protein S100-A12	P80511	2.7 (2.1 -- 3.2) [188]	2.8 (2.3 -- 3.3) [18]	0.7
FGF-19	Fibroblast growth factor 19	O95750	8.1 (7.4 -- 8.8) [188]	8.2 (7.4 -- 8.9) [18]	1.1
FGF-5	Fibroblast growth factor 5	Q8NF90	1.9 (1.7 -- 2.1) [188]	1.9 (1.8 -- 2.1) [18]	1.4
Fit3L	Fms-related tyrosine kinase 3 ligand	P49771	9.3 (9.1 -- 9.6) [188]	9.4 (9.1 -- 9.6) [18]	1.8
hGDNF	Glial cell line-derived neurotrophic factor	P39905	2.2 (2.0 -- 2.5) [188]	2.3 (2.0 -- 2.5) [18]	1.5

HGF	Hepatocyte growth factor	P14210	7.5 (7.2 -- 7.8) [188]	7.6 (7.4 -- 7.9) [18]	0.8
IFN-gamma	Interferon gamma	P01579	1.1 (1.1 -- 1.1) [188]	1.1 (1.1 -- 1.1) [18]	1.1
IL-1 alpha	Interleukin-1 alpha	P01583	1.7 (1.7 -- 1.7) [188]	1.7 (1.7 -- 1.7) [18]	1.7
IL-10	Interleukin-10	P22301	4.3 (4.0 -- 4.6) [188]	4.3 (4.0 -- 4.6) [18]	2.1
IL-10RA	Interleukin-10 receptor subunit alpha	Q13651	0.9 (0.9 -- 0.9) [188]	0.9 (0.9 -- 0.9) [18]	0.9
IL-10RB	Interleukin-10 receptor subunit beta	Q08334	6.7 (6.5 -- 6.9) [188]	6.7 (6.5 -- 7.0) [18]	0.8
IL-12B	Interleukin-12 subunit beta	P29460	4.8 (4.4 -- 5.3) [188]	5.0 (4.5 -- 5.4) [18]	0.9
IL-13	Interleukin-13	P35225	1.1 (1.1 -- 1.1) [188]	1.1 (1.1 -- 1.1) [18]	1.1
IL-15RA	Interleukin-15 receptor subunit alpha	Q13261	1.1 (0.9 -- 1.3) [188]	1.1 (0.9 -- 1.3) [18]	0.5
IL-17A	Interleukin-17A	Q16552	0.5 (0.4 -- 0.8) [188]	0.5 (0.4 -- 0.8) [18]	0.4
IL-17C	Interleukin-17C	Q9P0M4	1.5 (1.5 -- 1.8) [188]	1.6 (1.5 -- 1.8) [18]	1.5
IL-18R1	Interleukin-18 receptor 1	Q13478	7.5 (7.2 -- 7.8) [188]	7.6 (7.3 -- 7.8) [18]	0.8
IL-2	Interleukin-2	P60568	1.4 (1.4 -- 1.4) [188]	1.4 (1.4 -- 1.4) [18]	1.4
IL-20	Interleukin-20	Q9NYY1	0.8 (0.8 -- 0.8) [188]	0.8 (0.8 -- 0.8) [18]	0.8
IL-20RA	Interleukin-20 receptor subunit alpha	Q9UHF4	0.9 (0.9 -- 0.9) [188]	0.9 (0.9 -- 0.9) [18]	0.9
IL-22 RA1	Interleukin-22 receptor subunit alpha-1	Q8N6P7	2.3 (2.3 -- 2.3) [188]	2.3 (2.3 -- 2.3) [18]	2.3
IL-24	Interleukin-24	Q13007	0.4 (0.4 -- 0.4) [188]	0.4 (0.4 -- 0.4) [18]	0.4
IL-2RB	Interleukin-2 receptor subunit beta	P14784	0.8 (0.8 -- 0.8) [188]	0.8 (0.8 -- 0.8) [18]	0.8
IL-33	Interleukin-33	O95760	1.7 (1.7 -- 1.7) [188]	1.7 (1.7 -- 1.7) [18]	1.7
IL-4	Interleukin-4	P05112	1.5 (1.5 -- 1.5) [188]	1.5 (1.5 -- 1.5) [18]	1.5
IL-5	Interleukin-5	P05113	1.6 (1.6 -- 1.6) [188]	1.6 (1.6 -- 1.6) [18]	1.6
IL-7	Interleukin-7	P13232	3.3 (2.8 -- 3.8) [254]	3.3 (2.8 -- 3.9) [22]	1.5
IL-8	Interleukin-8	P10145	6.3 (5.9 -- 6.7) [188]	6.4 (6.1 -- 7.0) [18]	5.6
LAP TGF-beta-1	Latency-associated peptide transforming growth factor beta 1	P01137	6.3 (6.1 -- 6.6) [188]	6.4 (6.1 -- 6.7) [18]	0.8
LIF	Leukemia inhibitory factor	P15018	0.6 (0.6 -- 0.6) [188]	0.6 (0.6 -- 0.6) [18]	0.6
LIF-R	Leukemia inhibitory factor receptor	P42702	4.0 (3.8 -- 4.1) [188]	4.0 (3.8 -- 4.2) [18]	2.3
MCP-2	Monocyte chemotactic protein 2	P80075	9.0 (8.6 -- 9.4) [188]	9.1 (8.6 -- 9.5) [18]	5.1
MCP-3	Monocyte chemotactic protein 3	P80098	2.1 (1.9 -- 2.4) [188]	2.2 (1.9 -- 2.5) [18]	1.9

MCP-4	Monocyte chemotactic protein 4	Q99616	2.3 (1.9 -- 2.7) [188]	2.3 (2.0 -- 2.8) [18]	0.3
MMP-1	Matrix metalloproteinase-1	P03956	7.5 (6.8 -- 8.3) [188]	7.6 (6.9 -- 8.4) [18]	-0.3
MMP-10	Matrix metalloproteinase-10	P09238	9.3 (8.9 -- 9.7) [188]	9.3 (8.8 -- 9.7) [18]	2.1
NRTN	Neurturin	Q99748	1.2 (1.2 -- 1.2) [188]	1.2 (1.2 -- 1.2) [18]	1.2
NT-3	Neurotrophin-3	P20783	1.9 (1.7 -- 2.2) [188]	2.0 (1.7 -- 2.2) [18]	0.6
OSM	Oncostatin-M	P13725	2.6 (2.1 -- 3.1) [188]	2.7 (2.2 -- 3.2) [18]	0.5
PD-L1	Programmed cell death 1 ligand 1	Q9NZQ7	5.0 (4.8 -- 5.3) [188]	5.1 (4.8 -- 5.4) [18]	2.4
SIRT2	SIR2-like protein 2	Q8IXJ6	4.1 (3.4 -- 5.3) [188]	4.2 (3.6 -- 5.4) [18]	2.0
SLAMF1	Signaling lymphocytic activation molecule	Q13291	3.5 (3.2 -- 3.9) [188]	3.5 (3.2 -- 3.9) [18]	1.8
ST1A1	Sulfotransferase 1A1	P50225	1.3 (0.5 -- 2.7) [188]	1.3 (0.5 -- 2.8) [18]	0.3
STAMPB	STAM-binding protein	O95630	3.3 (2.9 -- 4.1) [188]	3.4 (3.0 -- 4.2) [18]	1.3
TGF-alpha	Transforming growth factor alpha	P01135	1.2 (1.0 -- 1.4) [188]	1.3 (1.0 -- 1.5) [18]	-1.0
TNF	Tumor necrosis factor	P01375	0.9 (0.9 -- 0.9) [188]	0.9 (0.9 -- 0.9) [18]	0.9
TNFB	TNF-beta	P01374	3.1 (2.8 -- 3.3) [188]	3.1 (2.8 -- 3.3) [18]	0.6
TNFRSF9	Tumor necrosis factor receptor superfamily member 9	Q07011	6.5 (6.1 -- 6.8) [188]	6.6 (6.2 -- 6.9) [18]	1.7
TNFSF14	Tumor necrosis factor ligand superfamily member 14	O43557	2.6 (2.3 -- 3.0) [188]	2.7 (2.4 -- 3.0) [18]	-0.0
TRAIL	TNF-related apoptosis-inducing ligand	P50591	7.6 (7.4 -- 7.8) [188]	7.6 (7.4 -- 7.8) [18]	6.4
TRANCE	TNF-related activation-induced cytokine	O14788	4.6 (4.2 -- 5.0) [188]	4.6 (4.1 -- 5.0) [18]	1.4
TSLP	Thymic stromal lymphopietin	Q969D9	1.1 (1.1 -- 1.1) [188]	1.1 (1.1 -- 1.1) [18]	1.1
TWEAK	Tumor necrosis factor (Ligand) superfamily, member 12	Q4ACW9	8.3 (8.1 -- 8.5) [188]	8.3 (8.0 -- 8.5) [18]	0.7
VEGF-A	Vascular endothelial growth factor A	P15692	10.1 (9.9 -- 10.4) [188]	10.2 (10.0 -- 10.5) [18]	2.3

Continuous variables presented as median (Q1-Q3). Number of missing values presented in [n]. SE, systemic embolism.

The CVDII panel were used for biomarkers ranging from ACE2 to XCL1; CVDIII panel for ALCAM to vWF; and Inflammation panel for 4E-BP1 to VEGF-A.

Table S2. Baseline NPX values (arbitrary units) and limit of detection (LoD) of proximity extension assay (PEA) biomarkers in the validation cohort.

Variable		UniProt No.	No	Ischemic stroke/SE	LoD
ACE2	Angiotensin-converting enzyme 2	Q9BYF1	4.4 (3.9 -- 4.8)	4.4 (4.1 -- 5.0)	0.3
ADAM-TS13	A disintegrin and metalloproteinase with thrombospondin motifs 13	Q76LX8	5.9 (5.8 -- 6.0)	5.9 (5.8 -- 6.0)	1.1
ADM	ADM	P35318	7.3 (6.9 -- 7.6)	7.3 (7.0 -- 7.7)	1.2
AGRP	Agouti-related protein	O00253	5.0 (4.7 -- 5.3)	5.1 (4.8 -- 5.3)	0.8
AMBP	Protein AMBP	P02760	7.5 (7.3 -- 7.6)	7.5 (7.3 -- 7.6)	0.8
ANGPT1	Angiopoietin-1	Q15389	8.0 (7.1 -- 8.8)	8.2 (7.2 -- 9.1)	0.6
BMP-6	Bone morphogenetic protein 6	P22004	4.8 (4.5 -- 5.1)	4.9 (4.6 -- 5.2)	0.8
BNP	Natriuretic peptides B	P16860	5.4 (4.0 -- 6.4)	5.7 (4.4 -- 6.8)	1.5
Protein BOC	Brother of CDO	Q9BWW1	3.9 (3.7 -- 4.1)	3.9 (3.7 -- 4.2)	1.0
CA5A	Carbonic anhydrase 5A, mitochondrial	Q92583	2.2 (1.7 -- 2.9)	2.3 (1.8 -- 3.0)	1.6
CCL17	C-C motif chemokine 17	P10147	7.7 (7.1 -- 8.5)	7.8 (7.4 -- 8.7)	1.3
CCL3	C-C motif chemokine 3	P01730	6.3 (5.9 -- 6.7)	6.4 (6.1 -- 6.9)	1.2
CD4	T-cell surface glycoprotein CD4	P29965	5.3 (5.1 -- 5.5)	5.4 (5.2 -- 5.6)	0.7
CD40-L	CD40 ligand	Q9UIB8	3.6 (3.0 -- 4.6)	3.9 (3.3 -- 5.2)	0.8
CD84	SLAM family member 5	P31997	4.1 (3.8 -- 4.4)	4.2 (3.9 -- 4.4)	1.6
CEACAM8	Carcinoembryonic antigenrelated cell adhesion molecule 8	Q99895	4.3 (3.9 -- 4.7)	4.3 (4.0 -- 4.7)	1.7
CTRC	Chymotrypsin C	P07711	10.2 (9.7 -- 10.7)	10.2 (9.8 -- 10.8)	1.9
CTSL1	Cathepsin L1	P09341	6.9 (6.7 -- 7.1)	7.0 (6.7 -- 7.3)	0.9
CXCL1	C-X-C motif chemokine 1	P07585	8.8 (7.9 -- 9.6)	9.0 (8.0 -- 9.7)	2.1
DCN	Decorin	Q16698	4.9 (4.7 -- 5.1)	5.0 (4.8 -- 5.2)	0.9
DECR1	2,4-dienoyl-CoA reductase, mitochondrial	O94907	3.7 (3.1 -- 4.6)	3.9 (3.2 -- 4.7)	1.7
Dkk-1	Dickkopf-related protein 1	P12104	8.4 (8.1 -- 8.9)	8.6 (8.3 -- 9.1)	0.8
FABP2	Fatty acid-binding protein, intestinal	Q9NSA1	8.8 (8.2 -- 9.4)	8.8 (8.3 -- 9.4)	1.5

FGF-21	Fibroblast growth factor 21	Q9GZV9	7.9 (7.0 -- 8.8)	7.7 (7.1 -- 8.6)	1.8
FGF-23	Fibroblast growth factor 23	P19883	4.7 (4.3 -- 5.2)	5.1 (4.5 -- 5.7)	2.0
FS	Follistatin	O00182	11.4 (11.1 -- 11.7)	11.4 (11.2 -- 11.7)	2.0
GAL-9	Galectin-9	Q9UK05	7.8 (7.5 -- 8.0)	7.8 (7.6 -- 8.1)	1.2
GDF-2	Growth/differentiation factor 2	P01241	9.0 (8.6 -- 9.3)	9.1 (8.7 -- 9.3)	1.4
GH	Growth hormone	P27352	7.5 (5.9 -- 8.9)	7.7 (6.3 -- 9.1)	1.1
GIF	Gastric intrinsic factor	Q04760	7.7 (7.1 -- 8.4)	7.8 (7.1 -- 8.3)	1.4
GLO1	Lactoylglutathione lyase	P51161	4.3 (3.8 -- 4.9)	4.4 (3.9 -- 4.9)	1.1
GT	Gastrotropin	Q9UJM8	1.9 (1.5 -- 2.4)	1.8 (1.5 -- 2.3)	0.5
HAOX1	Hydroxyacid oxidase 1	Q99075	5.4 (4.4 -- 6.4)	5.3 (4.4 -- 6.8)	1.0
HB-EGF	Proheparin-binding EGF-like growth factor	P09601	5.3 (5.0 -- 5.7)	5.4 (5.1 -- 6.0)	0.8
HO-1	Heme oxygenase 1	Q8IYS5	11.4 (11.1 -- 11.6)	11.4 (11.2 -- 11.6)	1.7
hOSCAR	Osteoclast-associated immunoglobulin-like receptor	P04792	10.4 (10.2 -- 10.5)	10.4 (10.3 -- 10.6)	1.8
HSP-27	Heat shock 27 kDa protein	P35475	9.1 (8.5 -- 9.6)	9.2 (8.7 -- 9.6)	2.5
IDUA	Alpha-L-iduronidase	P31994	5.4 (5.0 -- 5.7)	5.5 (5.2 -- 5.7)	-0.5
Ig G Fc receptor II-b	Low affinity immunoglobulin gamma Fc region receptor II-b	Q8TAD2	3.2 (2.5 -- 3.8)	3.4 (2.9 -- 4.0)	1.1
IL-17D	Interleukin-17D	Q14116	2.7 (2.4 -- 2.8)	2.7 (2.4 -- 2.9)	1.4
IL-1ra	Interleukin-1 receptor antagonist protein	P18510	4.6 (4.2 -- 5.1)	4.7 (4.3 -- 5.2)	1.0
IL-27	Interleukin-27	Q8NEV9, Q14213	5.8 (5.5 -- 6.1)	5.8 (5.4 -- 6.2)	1.1
IL-4RA	Interleukin-4 receptor subunit alpha	P24394	1.9 (1.6 -- 2.1)	1.9 (1.7 -- 2.2)	1.1
IL16	Pro-interleukin-16	Q14005	6.4 (6.1 -- 6.7)	6.4 (6.1 -- 6.8)	-0.2
IL-18	Interleukin-18	Q14116	8.5 (8.2 -- 8.9)	8.6 (8.4 -- 9.0)	1.1
IL1RL2	Interleukin-1 receptor-like 2	Q9HB29	4.5 (4.2 -- 4.7)	4.5 (4.2 -- 4.8)	1.3
IL6	Interleukin-6	P05231	3.5 (3.0 -- 4.1)	3.7 (3.2 -- 4.2)	1.2
ITGB1BP2	Melusin	Q9UKP3	2.7 (2.5 -- 4.2)	2.8 (2.5 -- 4.2)	2.5
LEP	Leptin	P41159	7.0 (6.3 -- 7.7)	7.0 (6.2 -- 7.7)	1.4
LOX-1	Lectin-like oxidized LDL receptor 1	P78380	6.6 (6.2 -- 7.0)	6.7 (6.4 -- 7.0)	1.4

LPL	Lipoprotein lipase	P06858	9.5 (9.1 -- 9.8)	9.5 (9.1 -- 9.8)	2.2
MARCO	Macrophage receptor MARCO	Q9UEW3	6.3 (6.1 -- 6.4)	6.3 (6.1 -- 6.4)	1.4
MERTK	Tyrosine-protein kinase Mer	Q12866	6.0 (5.7 -- 6.2)	6.0 (5.7 -- 6.3)	1.4
MMP-12	Matrix metalloproteinase-12	P39900	7.0 (6.5 -- 7.5)	7.3 (6.8 -- 7.9)	0.1
MMP-7	Matrix metalloproteinase-7	P09237	10.2 (9.8 -- 10.5)	10.3 (9.8 -- 10.7)	3.0
NEMO	NF-kappa-B essential modulator	Q9Y6K9	3.2 (2.7 -- 4.0)	3.3 (2.8 -- 4.0)	1.5
PAPPA	Pappalysin-1	Q13219	3.4 (3.0 -- 3.8)	3.5 (3.1 -- 3.9)	0.8
PAR-1	Proteinase-activated receptor 1	P25116	8.6 (8.3 -- 8.9)	8.7 (8.4 -- 9.0)	1.2
PARP-1	Poly [ADP-ribose] polymerase 1	P09874	3.0 (2.6 -- 3.3)	3.0 (2.6 -- 3.4)	1.4
PD-L2	Programmed cell death 1 ligand 2	Q9BQ51	3.1 (2.9 -- 3.3)	3.2 (3.0 -- 3.5)	0.9
PDGF subunit B	Platelet-derived growth factor subunit B	P01127	8.7 (7.8 -- 9.6)	9.0 (8.0 -- 9.8)	1.9
PIGF	Placenta growth factor (PIGF)	P49763	7.9 (7.7 -- 8.2)	8.0 (7.8 -- 8.2)	1.1
PIgR	Polymeric immunoglobulin receptor	P01833	6.3 (6.2 -- 6.4)	6.3 (6.2 -- 6.4)	2.3
PRELP	Prolargin	P51888	8.1 (8.0 -- 8.3) [1]	8.2 (8.0 -- 8.3) [0]	0.8
PRSS27	Serine protease 27	Q9BQR3	8.3 (8.0 -- 8.6)	8.4 (8.1 -- 8.8)	0.9
PRSS8	Prostasin	Q16651	8.5 (8.2 -- 8.7)	8.5 (8.3 -- 8.7)	0.1
PSGL-1	P-selectin glycoprotein ligand 1	Q14242	3.8 (3.7 -- 4.0)	3.9 (3.7 -- 4.0)	0.7
PTX3	Pentraxin-related protein PTX3	P26022	4.3 (4.0 -- 4.7)	4.4 (4.1 -- 4.7)	1.1
RAGE	Receptor for advanced glycosylation end products	Q15109	13.3 (13.0 -- 13.6)	13.5 (13.0 -- 13.8)	2.3
REN	Renin	P00797	6.9 (6.2 -- 7.6)	7.0 (6.4 -- 7.7)	1.3
SCF	Stem cell factor	P21583	8.7 (8.4 -- 9.0)	8.7 (8.4 -- 9.0)	1.2
SERPINA12	Serpin A12	Q8IW75	2.5 (2.0 -- 3.2)	2.6 (2.0 -- 3.2)	0.6
SLAMF7	SLAM family member 7	Q9NQ25	4.0 (3.6 -- 4.5) [1]	4.0 (3.7 -- 4.4) [0]	2.1
SOD2	Superoxide dismutase [Mn], mitochondrial	P04179	9.4 (9.4 -- 9.5)	9.4 (9.4 -- 9.5)	1.3
SORT1	Sortilin	Q99523	8.5 (8.3 -- 8.7)	8.6 (8.4 -- 8.8)	1.2
SPON2	Spondin-2	Q9BUD6	8.2 (8.0 -- 8.3)	8.2 (8.1 -- 8.3)	0.6
SRC	Proto-oncogene tyrosine-protein kinase Src	P12931	5.1 (3.9 -- 6.8)	5.1 (4.1 -- 6.8)	0.6
STK4	Serine/threonine-protein kinase 4	Q13043	2.4 (1.3 -- 4.2)	2.5 (1.3 -- 4.0)	1.3
TF	Tissue factor	P13726	5.2 (5.0 -- 5.4)	5.2 (5.1 -- 5.4)	0.7

TGM2	Protein-glutamine gamma-glutamyltransferase 2	P21980	8.7 (8.3 -- 9.2)	8.8 (8.4 -- 9.2)	2.5
THBS2	Thrombospondin-2	P35442	5.6 (5.4 -- 5.8)	5.6 (5.5 -- 5.8)	0.2
THPO	Thrombopoietin	P40225	2.7 (2.5 -- 2.9)	2.7 (2.5 -- 3.0)	0.6
TIE2	Angiopoietin-1 receptor	Q02763	7.2 (7.0 -- 7.3)	7.2 (7.0 -- 7.4)	1.4
TM	Thrombomodulin	P07204	10.3 (10.0 -- 10.5)	10.3 (10.1 -- 10.6)	2.3
TIM	T-cell immunoglobulin mucin receptor 1	Q96D42	7.4 (6.9 -- 7.9)	7.7 (7.3 -- 8.4)	1.7
TNFRSF10A	Tumor necrosis factor receptor superfamily member 10A	O00220	3.8 (3.5 -- 4.0)	3.9 (3.6 -- 4.1)	1.4
TNFRSF11A	Tumor necrosis factor receptor superfamily member 11A	Q9Y6Q6	5.8 (5.5 -- 6.1)	5.9 (5.6 -- 6.2)	1.3
TNFRSF13B	Tumor necrosis factor receptor superfamily member 13B	O14836	10.1 (9.9 -- 10.4)	10.2 (9.8 -- 10.5)	1.4
TRAIL.R2	TNF-related apoptosis-inducing ligand receptor 2	O14763	5.9 (5.7 -- 6.2)	6.0 (5.9 -- 6.4)	1.5
VEGFD	Vascular endothelial growth factor D	O43915	7.6 (7.4 -- 7.9)	7.7 (7.4 -- 8.0)	0.7
VSIG2	V-set and immunoglobulin domain-containing protein 2	Q96IQ7	4.8 (4.5 -- 5.2)	4.9 (4.6 -- 5.3)	1.6
XCCL1	Lymphotoxin	P47992	5.0 (4.6 -- 5.4)	5.0 (4.6 -- 5.4)	0.3
ALCAM	CD166 antigen	Q13740	7.2 (7.0 -- 7.3)	7.2 (7.0 -- 7.4)	1.2
AP-N	Aminopeptidase N	P15144	4.7 (4.5 -- 4.9)	4.7 (4.6 -- 4.9)	1.1
AXL	Tyrosine-protein kinase receptor UFO	P30530	8.8 (8.6 -- 9.1)	8.9 (8.7 -- 9.1)	2.4
AZU1	Azurocidin	P20160	2.5 (2.1 -- 3.1)	2.5 (2.1 -- 3.1)	0.6
BLM hydrolase	Bleomycin hydrolase	Q13867	2.1 (1.9 -- 2.4)	2.1 (1.9 -- 2.4)	-0.6
CASP-3	Caspase-3	P42574	4.7 (3.9 -- 6.1)	4.7 (4.0 -- 6.0)	0.7
CCL15	C-C motif chemokine 15	Q16663	7.1 (6.8 -- 7.5)	7.2 (6.9 -- 7.5)	1.2
CCL16	C-C motif chemokine 16	O15467	6.7 (6.4 -- 7.0)	6.8 (6.4 -- 7.1)	0.4
CCL24	C-C motif chemokine 24	O00175	5.0 (4.4 -- 5.7)	4.9 (4.3 -- 5.6)	0.8
CD163	Scavenger receptor cysteine-rich type 1 protein M130	Q86VB7	7.7 (7.4 -- 8.0)	7.8 (7.5 -- 8.0)	1.2
CD93	Complement component C1q receptor	Q9NPY3	10.9 (10.6 -- 11.1)	11.0 (10.7 -- 11.2)	1.7
CDH5	Cadherin-5	Q9NPY3	4.3 (4.1 -- 4.5)	4.3 (4.1 -- 4.5)	1.4
CHI3L1	Chitinase-3-like protein 1	P36222	4.6 (3.9 -- 5.3)	4.8 (4.2 -- 5.4)	-0.8
CHIT1	Chitotriosidase-1	Q13231	5.3 (4.6 -- 6.1)	5.5 (4.7 -- 6.3)	0.8
CNTN1	Contactin-1	Q12860	4.3 (4.1 -- 4.6)	4.4 (4.1 -- 4.6)	0.7
COL1A1	Collagen alpha-1(I) chain	P02452	2.7 (2.5 -- 2.9)	2.8 (2.5 -- 3.0)	0.5

CPA1	Carboxypeptidase A1	P15085	5.7 (5.3 -- 6.2)	5.8 (5.3 -- 6.2)	1.3
CPB1	Carboxypeptidase B	P15086	5.6 (5.1 -- 6.0)	5.6 (5.1 -- 6.0)	0.6
CSTB	Cystatin-B	P04080	4.0 (3.7 -- 4.4)	4.1 (3.9 -- 4.5)	1.9
CTSD	Cathepsin D	P07339	2.4 (2.1 -- 2.7)	2.4 (2.1 -- 2.8)	0.1
CTSZ	Cathepsin Z	Q9UBR2	5.1 (4.9 -- 5.4)	5.2 (5.0 -- 5.4)	1.0
CXCL16	C-X-C motif chemokine 16	Q9H2A7	5.2 (5.1 -- 5.4)	5.3 (5.1 -- 5.4)	1.4
DLK.1	Protein delta homolog 1	P80370	5.8 (5.3 -- 6.1)	5.8 (5.3 -- 6.2)	1.4
EGFR	Epidermal growth factor receptor	P00533	2.8 (2.6 -- 2.9)	2.7 (2.6 -- 2.9)	0.3
EP.CAM	Epithelial cell adhesion molecule	P16422	5.1 (4.5 -- 5.8)	5.0 (4.5 -- 5.7)	2.0
EPHB4	Ephrin type-B receptor 4	P54760	5.5 (5.2 -- 5.7)	5.5 (5.3 -- 5.8)	1.6
FABP4	Fatty acid-binding protein, adipocyte	P15090	5.7 (5.1 -- 6.3)	5.8 (5.3 -- 6.4)	2.0
FAS	Tumor necrosis factor receptor superfamily member 6	P25445	5.8 (5.6 -- 6.0) [0]	5.8 (5.6 -- 6.1) [1]	0.6
Gal-3	Galectin-3	P17931	3.2 (2.9 -- 3.4)	3.2 (3.0 -- 3.4)	-1.1
Gal-4	Galectin-4	P56470	4.1 (3.8 -- 4.5)	4.2 (3.9 -- 4.6)	1.0
GDF-15	Growth/differentiation factor 15	Q99988	6.2 (5.9 -- 6.7)	6.5 (6.1 -- 7.0)	0.6
GP6	Platelet glycoprotein VI	Q9HCN6	1.9 (1.6 -- 2.4)	2.0 (1.7 -- 2.4)	1.1
GRN	Granulins	P28799	5.4 (5.2 -- 5.6)	5.5 (5.3 -- 5.7)	0.4
ICAM-2	Intercellular adhesion molecule 2	P13598	5.4 (5.1 -- 5.6)	5.5 (5.2 -- 5.7)	1.6
IGFBP-1	Insulin-like growth factor-binding protein 1	P08833	4.8 (3.9 -- 5.6)	4.8 (4.2 -- 5.7)	1.6
IGFBP-2	Insulin-like Growth Factor-Binding Protein 2	P18065	8.2 (7.6 -- 8.6)	8.4 (8.0 -- 8.7)	0.8
IGFBP-7	Insulin-like growth factor-binding protein 7	Q16270	7.9 (7.6 -- 8.1)	8.0 (7.7 -- 8.3)	1.4
IL-17RA	Interleukin-17 receptor A	Q96F46	4.0 (3.7 -- 4.3)	4.1 (3.7 -- 4.3)	1.6
IL-18BP	Interleukin-18-binding protein	O95998	5.8 (5.6 -- 6.1)	5.9 (5.7 -- 6.2)	1.3
IL-1RT1	Interleukin-1 receptor type 1	P14778	6.3 (6.2 -- 6.5)	6.4 (6.2 -- 6.7)	2.1
IL-1RT2	Interleukin-1 receptor type 2	P27930	4.9 (4.7 -- 5.1)	4.8 (4.6 -- 5.1)	0.8
IL-6RA	Interleukin-6 receptor subunit alpha	P08887	11.6 (11.3 -- 11.9)	11.6 (11.3 -- 11.8)	2.7
IL2-RA	Interleukin-2 receptor subunit alpha	P01589	3.8 (3.5 -- 4.1)	3.9 (3.6 -- 4.1)	1.8
ITGB2	Integrin beta-2	P05107	5.4 (5.1 -- 5.6)	5.4 (5.2 -- 5.7)	1.0
JAM-A	Junctional adhesion molecule A	Q9Y624	3.8 (3.5 -- 4.1)	3.9 (3.7 -- 4.3)	0.2

KLK6	Kallikrein-6	Q92876	2.4 (2.1 -- 2.6)	2.4 (2.2 -- 2.7)	0.3
LDL receptor	Low-density lipoprotein receptor	P01130	3.7 (3.4 -- 4.1)	3.7 (3.3 -- 4.1)	0.2
LTBR	Lymphotoxin-beta receptor	P36941	3.9 (3.7 -- 4.2)	4.0 (3.8 -- 4.3)	1.5
MB	Myoglobin	P02144	7.7 (7.3 -- 8.1)	7.7 (7.3 -- 8.0)	2.4
MCP-1	Monocyte chemotactic protein 1	P13500	4.2 (3.9 -- 4.4)	4.2 (4.0 -- 4.5)	1.1
MEPE	Matrix extracellular phosphoglycoprotein	Q9NQ76	5.6 (5.3 -- 5.9)	5.6 (5.3 -- 5.9)	1.3
MMP-2	Matrix metalloproteinase-2	P08253	3.7 (3.5 -- 3.9)	3.7 (3.5 -- 4.0)	2.5
MMP-3	Matrix metalloproteinase-3	P08254	7.7 (7.2 -- 8.1)	7.7 (7.4 -- 8.1)	1.7
MMP-9	Matrix metalloproteinase-9	P14780	5.1 (4.6 -- 5.7)	5.3 (4.8 -- 5.8)	1.3
MPO	Myeloperoxidase	P05164	3.0 (2.8 -- 3.3)	3.0 (2.8 -- 3.3)	0.6
Notch 3	Neurogenic locus notch homolog protein 3	Q9UM47	5.7 (5.4 -- 6.0)	5.8 (5.5 -- 6.0)	1.3
NT-proBNP	N-terminal prohormone brain natriuretic peptide	NA	6.7 (5.9 -- 7.3)	6.9 (6.1 -- 7.7)	2.2
OPG	Osteoprotegerin	O00300	3.9 (3.7 -- 4.2)	4.0 (3.8 -- 4.3)	1.5
OPN	Osteopontin	P10451	7.4 (7.0 -- 7.8)	7.6 (7.2 -- 8.0)	1.3
PAI	Plasminogen activator inhibitor 1	P05121	5.3 (4.7 -- 6.0)	5.4 (4.7 -- 6.1)	1.0
PCSK9	Proprotein convertase subtilisin/kexin type 9	Q8NBP7	3.1 (2.9 -- 3.4)	3.2 (2.9 -- 3.4)	0.9
PDGF subunit A	Platelet-derived growth factor subunit A	P04085	3.1 (2.6 -- 3.8)	3.4 (2.7 -- 4.1)	1.3
PECAM-1	Platelet endothelial cell adhesion molecule	P16284	4.1 (3.9 -- 4.3)	4.2 (4.0 -- 4.4)	1.0
PGLYRP1	Peptidoglycan recognition protein 1	O75594	7.3 (6.9 -- 7.6)	7.4 (7.0 -- 7.7)	0.4
PI3	Elafin	P19957	2.4 (2.0 -- 2.9)	2.5 (2.1 -- 3.1)	-0.0
PLC	Perlecan	P98160	7.9 (7.7 -- 8.1)	7.9 (7.7 -- 8.2)	1.0
PON3	Paraoxonase	Q15166	5.7 (5.3 -- 6.1)	5.7 (5.4 -- 6.1)	1.0
PRTN3	Myeloblastin	P24158	3.7 (3.4 -- 4.1)	3.8 (3.4 -- 4.1)	0.3
PSP-D	Pulmonary surfactant-associated protein D	P35247	3.2 (2.6 -- 3.8)	3.3 (2.8 -- 3.8)	1.2
RARRES2	Retinoic acid receptor responder protein 2	Q99969	11.4 (11.3 -- 11.6)	11.5 (11.3 -- 11.6)	1.9
RETN	Resistin	Q9HD89	6.0 (5.7 -- 6.3)	6.1 (5.8 -- 6.4)	0.6
SCGB3A2	Secretoglobin family 3A member 2	Q96PL1	2.7 (2.3 -- 3.2)	2.7 (2.3 -- 3.2)	0.9
SELE	E-selectin	P16581	11.7 (11.3 -- 12.1)	11.8 (11.4 -- 12.2)	3.5
SELP	P-selectin	P16109	9.3 (9.0 -- 9.7)	9.4 (9.2 -- 9.8)	1.7

SHPS-1	Tyrosine-protein phosphatase non- receptor type substrate 1	P78324	3.6 (3.3 -- 3.9)	3.7 (3.4 -- 4.0)	1.3
SPON1	Spondin-1	Q9HCB6	2.3 (2.1 -- 2.5)	2.4 (2.2 -- 2.6)	1.6
ST2	ST2 protein	Q01638	4.5 (4.1 -- 4.8)	4.5 (4.2 -- 4.9)	1.4
t-PA	Tissue-type plasminogen activator	P00750	6.8 (6.4 -- 7.1)	6.8 (6.3 -- 7.2)	1.7
TFF3	Trefoil factor 3	Q07654	5.1 (4.8 -- 5.4)	5.2 (5.0 -- 5.5)	1.3
TFPI	Tissue factor pathway inhibitor	P10646	8.9 (8.7 -- 9.2)	9.0 (8.8 -- 9.2)	1.2
TIMP4	Metalloproteinase inhibitor 4	Q99727	3.7 (3.4 -- 4.0)	3.7 (3.4 -- 4.0)	1.2
TLT-2	Trem-like transcript 2 protein	Q5T2D2	4.7 (4.4 -- 5.0) [2]	4.7 (4.5 -- 5.0) [0]	2.1
TNF-R1	Tumor necrosis factor receptor 1	P19438	6.7 (6.4 -- 7.0)	6.9 (6.5 -- 7.2)	1.6
TNF-R2	Tumor necrosis factor receptor 2	P20333	5.7 (5.4 -- 6.0)	5.8 (5.5 -- 6.2)	1.8
TNFRSF10C	Tumor necrosis factor receptor superfamily member 10C	O14798	6.7 (6.4 -- 7.1)	6.8 (6.3 -- 7.1)	1.8
TNFRSF14	Tumor necrosis factor receptor superfamily member 14	Q92956	4.5 (4.3 -- 4.8)	4.7 (4.3 -- 4.9)	1.4
TNFSF13B	Tumor necrosis factor ligand superfamily member 13B	Q9Y275	6.9 (6.7 -- 7.2)	7.0 (6.8 -- 7.2)	1.4
TR	Transferrin receptor protein 1	P02786	5.6 (5.1 -- 6.0)	5.6 (5.0 -- 6.1)	0.8
TR-AP	Tartrate-resistant acid phosphatase type 5	P13686	3.1 (2.9 -- 3.4)	3.1 (2.8 -- 3.3)	-0.4
U-PAR	Urokinase plasminogen activator surface receptor	Q03405	5.5 (5.2 -- 5.7)	5.6 (5.4 -- 5.9)	1.1
uPA	Urokinase-type plasminogen activator	P00749	4.6 (4.4 -- 4.8)	4.6 (4.4 -- 4.9)	0.1
vWF	von Willebrand factor	P04275	6.2 (5.7 -- 6.7)	6.2 (5.7 -- 6.7)	1.8

Continuous variables presented as median (Q1-Q3). Number of missing values presented in [n]. SE, systemic embolism. The CVDII panel were used for biomarkers ranging from ACE2 to XCL1; CVDIII panel for ALCAM to vWF.

Table S3. Spearman correlation between selected proximity extension assay (PEA) biomarkers and established biomarkers in identification cohort.

	Cystatin C	NT-proBNP	Troponin T
CCL16	0,326057	0,116803	0,216475
TFPI	0,116171	0,027273	0,071213
CTS2	0,419811	0,089237	0,255986
vWF	0,223911	0,128312	0,156687
OPN	0,369751	0,279303	0,339888
LDL receptor	-0,01631	-0,23105	-0,14058
RARRES2	0,384146	0,065364	0,167948
PAI	-0,01812	-0,10743	-0,05619
TGM2	0,130266	0,034768	0,054574
BLM hydrolase	0,012694	0,026024	0,046392
IL-8	0,229656	0,158906	0,210904
t-PA	0,142776	0,00769	0,070268
ST2	0,129105	0,233633	0,227892
CTSL1	0,195729	0,13611	0,18377
ICAM-2	0,218761	0,103348	0,167416
THPO	0,104614	-0,02697	0,019508
RETN	0,423148	0,184607	0,243007
EGFR	-0,17501	-0,22745	-0,18511
SORT1	0,102739	0,16729	0,128806
PECAM-1	0,139443	0,053568	0,108929
CD163	0,209344	0,04723	0,109585
MCP-3	0,251239	0,067235	0,197417
PI3	0,43205	0,184406	0,330276
CASP-8	0,174668	0,061145	0,099539
AXL	0,325201	0,149479	0,188641
MMP-9	0,1419	0,028383	0,05646
SPON1	0,36497	0,37444	0,34543
PARP-1	0,163689	0,067256	0,083399
SLAMF7	0,193701	0,18533	0,162963
ADAM-TS13	-0,13264	-0,1052	-0,13527
GIF	0,081056	-0,03373	0,059539
IL-17D	0,256782	0,280115	0,227042
Protein BOC	0,03653	0,129242	0,12147
REN	0,20946	-0,06636	0,161811

Correlation analyses for the PEA biomarkers associated with ischemic stroke according to adjusted Cox-regression analyses (model B). Cystatin C represents renal function, N-terminal prohormone brain natriuretic peptide (NT-proBNP) cardiac dysfunction, and troponin T myocyte damage.

Table S4. Spearman correlation between selected proximity extension assay (PEA) biomarkers and established biomarkers in validation cohort.

	Cystatin C	NT-proBNP	Troponin T
TIM	0,199422	0,137887	0,222042
MMP-12	0,263789	0,210639	0,218399
Ig G Fc receptor II-b	0,108278	0,094566	0,046282
Gal-9	0,542171	0,221024	0,194315
SHPS-1	0,236335	0,102631	0,115044
MMP-9	0,128594	0,021436	0,059973
IL-1RT1	0,140452	0,205891	0,229196
PDGF subunit B	0,033149	0,012021	-0,03668
ALCAM	0,217539	0,153672	0,07557
PD-L2	0,22183	0,176829	0,164531
PRSS27	0,173877	-0,01033	0,057556
IL-1ra	0,275154	0,028785	0,032681
GDF-15	0,461178	0,358954	0,472604
PDGF subunit A	0,039029	0,02956	-0,02062
CD40-L	0,078597	0,039913	-0,01413
Dkk-1	0,125303	0,049636	0,038688
SORT1	0,037477	0,1309	0,08599
IL-18	0,18602	0,106796	0,091669
GT	0,228407	0,176812	0,120412

Correlation analyses for the PEA biomarkers associated with ischemic stroke according to adjusted Cox-regression analyses (model B). Cystatin C represents renal function, N-terminal prohormone brain natriuretic peptide (NT-proBNP) cardiac dysfunction, and troponin T myocyte damage.

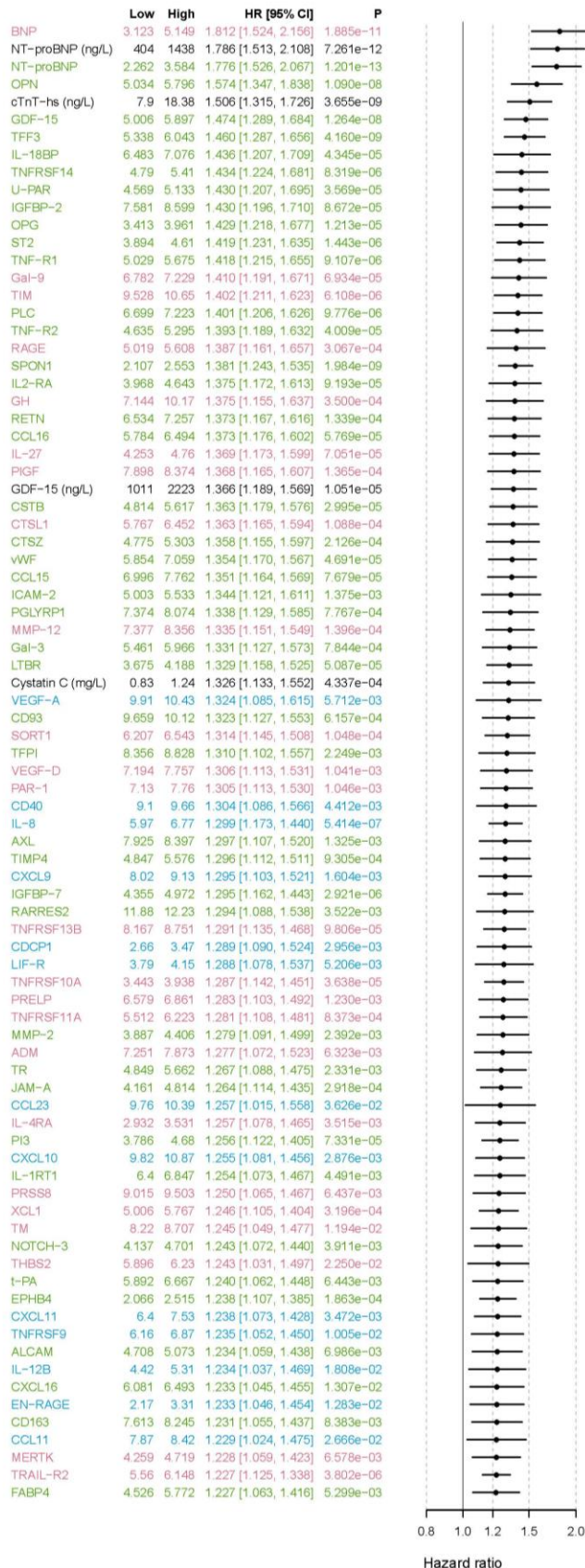
Table S5. Baseline concentrations of the identified proximity extension assay (PEA) biomarkers associated with ischemic stroke/systemic embolism (SE).

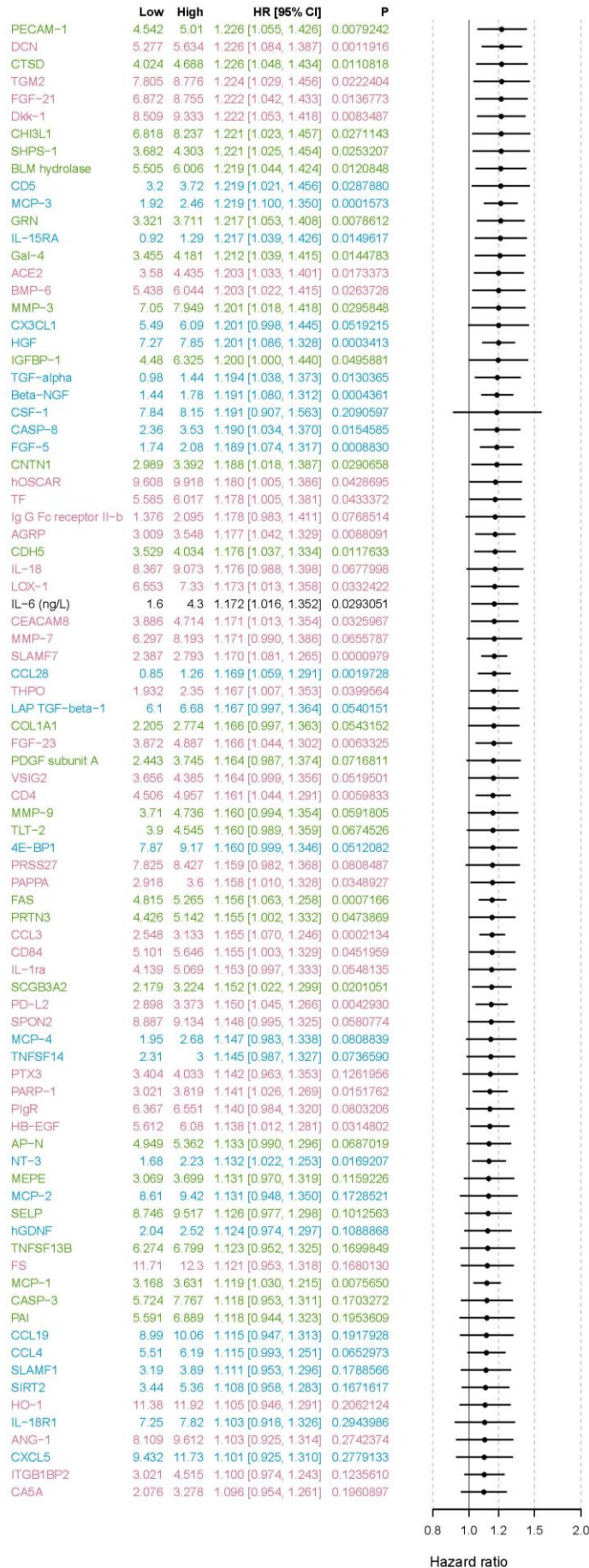
Identification cohort	No event (n=4,124)	Ischemic stroke/SE (n=282)	p-value
MMP9	4.2 (3.7 -- 4.7) [23]	4.3 (3.7 -- 4.7) [0]	0.0592
OPN	5.4 (5.0 -- 5.7) [23]	5.6 (5.2 -- 5.9) [0]	1.09E-08
SORT1	6.4 (6.2 -- 6.5) [203]	6.4 (6.2 -- 6.6) [12]	1.05E-04
ST2	4.2 (3.9 -- 4.6) [23]	4.4 (4.0 -- 4.7) [0]	1.44E-06
TFF3	5.6 (5.3 -- 6.0) [23]	5.7 (5.4 -- 6.2) [0]	4.16E-09
Validation cohort	No event (n=1,062)	Ischemic stroke/SE (n=149)	
MMP9	5.1 (4.6 -- 5.7)	5.3 (4.8 -- 5.8)	0.0155
OPN	7.4 (7.0 -- 7.8)	7.6 (7.2 -- 8.0)	0.0028
SORT1	8.5 (8.3 -- 8.7)	8.6 (8.4 -- 8.8)	0.0041
ST2	4.5 (4.1 -- 4.8)	4.5 (4.2 -- 4.9)	0.1278
TFF3	5.1 (4.8 -- 5.4)	5.2 (5.0 -- 5.5)	4.95E-04

P-value according to unadjusted Cox-regression models. Number of missing values presented in [n]. MMP9, matrix metalloproteinase-9; OPN, osteopontin; SORT1, sortilin; ST2, suppression of tumorigenesis 2; TFF3, trefoil factor-3.

Figure S1A

Association of all 255 biomarkers with ischemic stroke or systemic embolism according to unadjusted Cox-regression analysis in the identification cohort





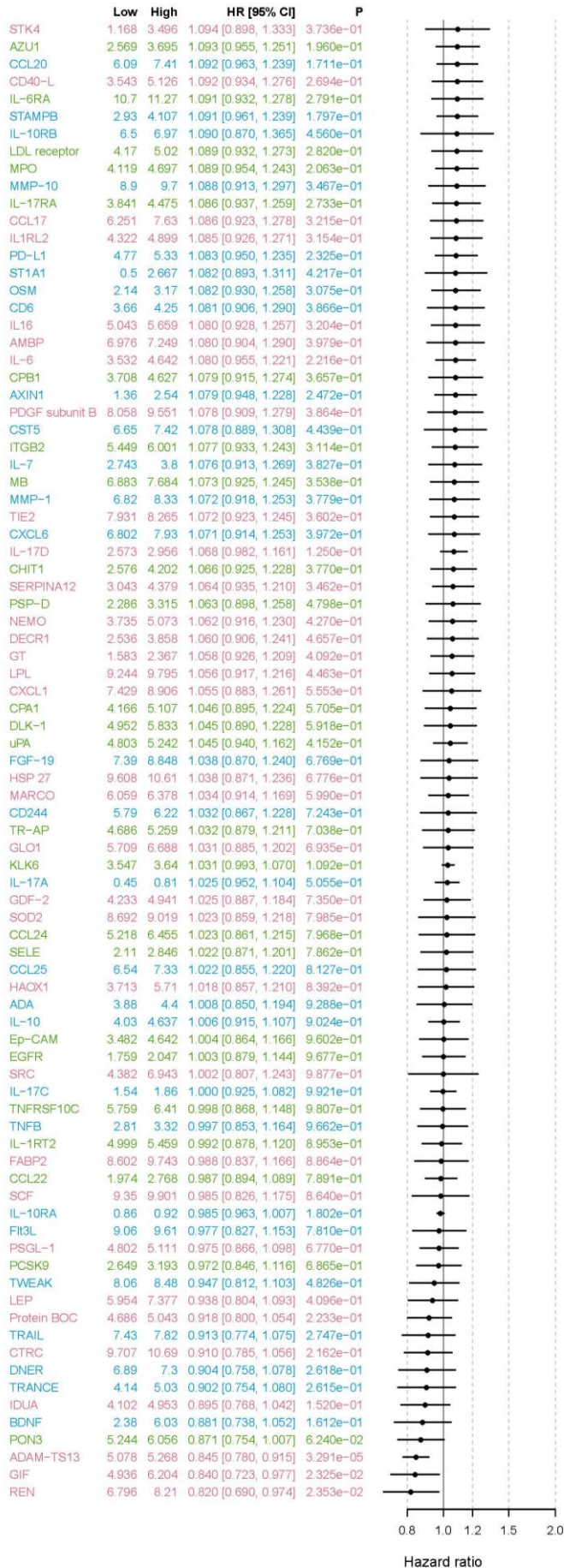


Figure S1B

Association of all 188 biomarkers with ischemic stroke or systemic embolism according to unadjusted Cox-regression analysis in the validation cohort

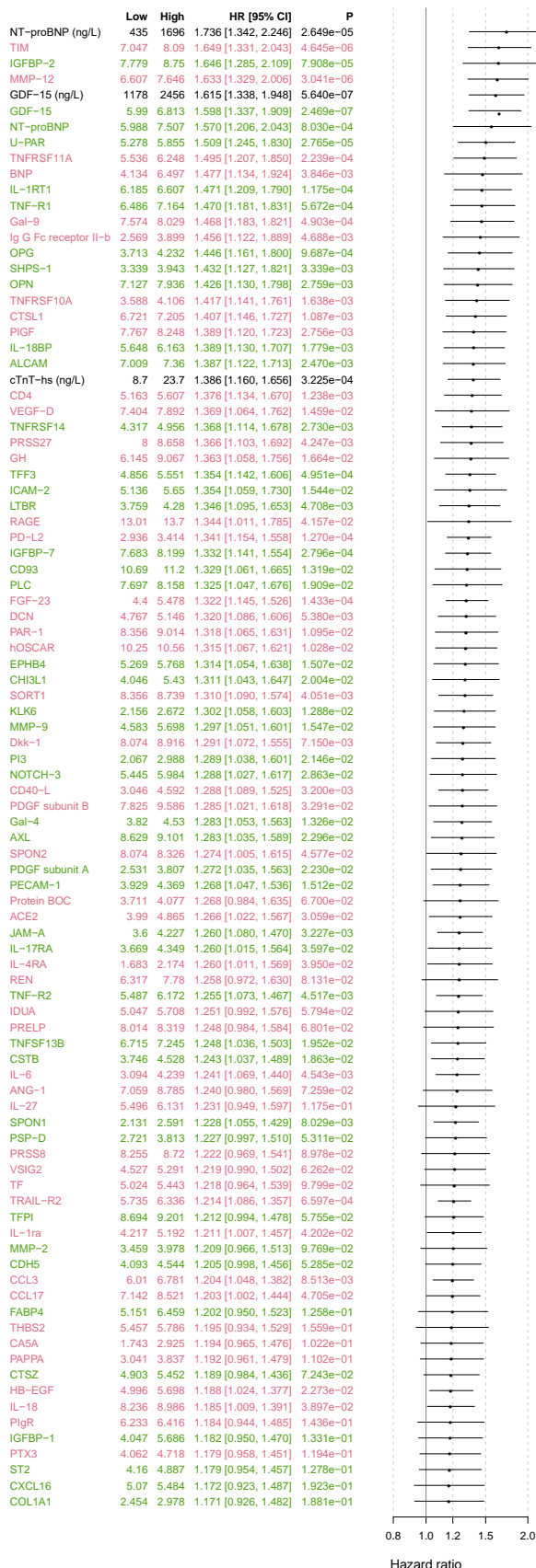




Figure S2A

Association of the top biomarkers (Table 3) with ischemic stroke/systemic embolism by using splines in the identification cohort

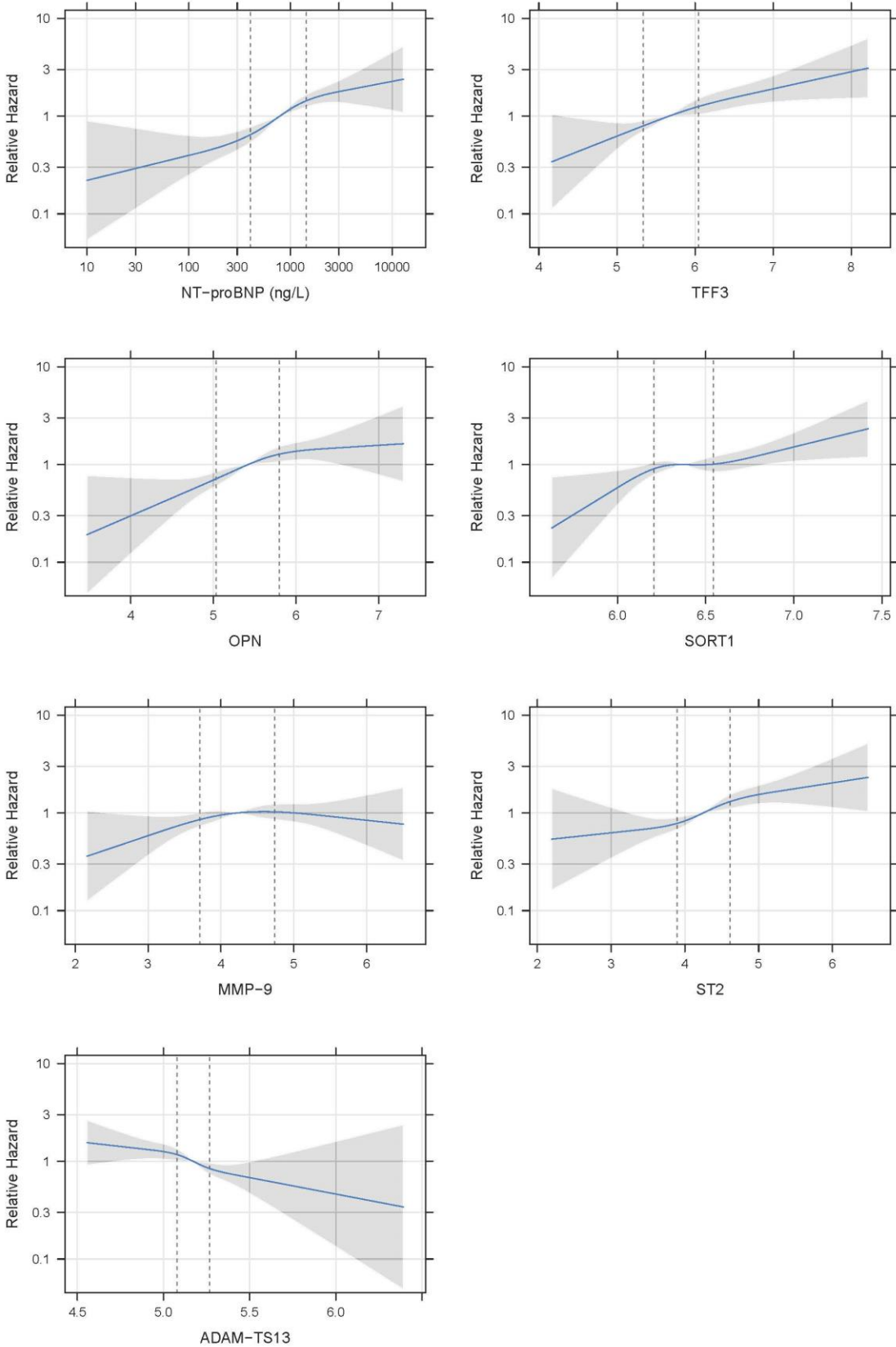


Figure S2B

Association of the top biomarkers (Table 3) with ischemic stroke/systemic embolism by using splines in the validation cohort

