

Table S2. Known Cell Signaling Pathways of Differentially Expressed Phosphoproteins

Protein Name	Gene Symbol and UniProtKB number	Known Pathways Involved [^]
Insulin receptor substrate 2*	IRS2, P81122	Gonadotropin-releasing hormone receptor pathway Insulin/IGF pathway-mitogen activated protein kinase kinase/MAP kinase cascade Insulin/IGF pathway-protein kinase B signaling cascade Interleukin signaling pathway
1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1	PLCG1, Q62077	5HT2 type receptor mediated signaling pathway Angiogenesis Axon guidance mediated by netrin CCKR signaling EGF receptor signaling FGF signaling Histamine H1 receptor signaling Inflammation mediated by chemokines and cytokines

		<p>Oxytocin receptor mediated signaling</p> <p>PDGF signaling</p> <p>T cell activation</p> <p>Thyrotropin-releasing hormone receptor signaling</p> <p>VEGF signaling</p>
Alpha-enolase	ENO1, P17182	Glycolysis
Casein kinase I isoform delta	CSNK1D, Q9DC28	<p>CCKR Signalling</p> <p>Circadian Clock System</p> <p>Parkinsons disease</p> <p>Wnt signaling</p>
Cytoplasmic dynein 1 heavy chain 1	DYNC1H1, Q9JHU4	Huntington Disease
Dynamin-1	DNM1, P39053	<p>Gonadotropin-releasing hormone receptor</p> <p>CCKR Signaling</p>
Myosin-Va	MYO5A, Q99104	Nicotinic acetylcholine receptor signaling
Phosphatidylethanolamine-binding protein 1	PEBP1, P70296	FGF signaling

Phosphoglycerate kinase 1	PGK1, P09411	Glycolysis
Protein kinase C and casein kinase substrate in neurons protein 1	PACSIN1, Q61644	Huntington Disease
Regulator of G-protein signaling 6	RGS6, Q9Z2H2	Heterotrimeric G-protein signaling pathway-Gq alpha and Go alpha mediated pathway
Rho GTPase-activating protein 1	ARHGAP1, Q5FWK3	Angiogenesis Cytoskeletal regulation by Rho GTPase PDGF signaling VEGF signaling
SLIT-ROBO Rho GTPase-activating protein 3	SRGAP3, Q812A2	PDGF Signaling
Syntaxin-binding protein 1	STXBP1, O08599	Synaptic Vesicle Trafficking
Triosephosphate isomerase	TPI1, P17751	Glycolysis and gluconeogenesis
Tyrosine-protein kinase	LYN, P25911	B-cell activation Cadherin signaling Parkinsons disease

		CCKR signaling
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All phosphoproteins listed are down-regulated in CN-105 compared to Vehicle in Ischemic Stroke except those indicated with *.
^Pathways obtained from Protein Analysis Through Evolutionary Relationships (PANTHERS) classification system on www.pantherdb.org on 25th September 2016, version 3.4.1.