

Major Resources Table

Animals (in vivo studies)

Species	Vendor or Source	Background Strain	Sex	Persistent ID / URL
C57BL/6J Wild Type Mice (Strain #:000664)	Jackson Laboratory	-	Both Male and Female	https://www.jax.org/strain/000664

Genetically Modified Animals

	Strain	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent – Male/Female	Eif2ak3tm1.2Drc/J (PERK ^{loxP})	Jackson Labs	C57BL/6J	Strain #: 023066	MGI:1341830
Parent – Male/Female	C57BL/6-Tg(Pf4-icre)Q3Rsko/J (Pf4 iCre)	Jackson Labs	C57BL/6J	Strain #: 008535	MGI: J:127229
Parent – Male/Female	Xbp1 ^{tm1Glm}	Dr. Laura Glimcher	C57BL/6J	-	MGI:2386788
Parent – Male/Female	B6.Cg-Atf6 ^{tm1Hota} /J (ATF6 ^{loxP})	Jackson Labs	C57BL/6J	Strain #:028253	MGI: J:213542

Antibodies

Target antigen	Vendor or Source	Catalog #	Dilution	Persistent ID / URL
GRP78	Abcam	ab21685	WB: 1:1500 IF: 1:100	https://www.abcam.com/grp78-bip-antibody-ab21685.html
p-IRE1 α	Invitrogen	PA5-105424	WB: 1:1000	https://www.thermofisher.com/antibody/product/Phospho-IRE1-alpha-Ser724-Antibody-Polyclonal/PA5-105424
IRE1 α	Sigma Aldrich	I6785	IF: 1:200	https://www.sigmaaldrich.com/US/en/product/sigma/i6785
IRE1 α	Invitrogen	MA5-14991	WB: 1:1000	https://www.thermofisher.com/antibody/product/IRE1-alpha-Antibody-clone-J-607-10-Monoclonal/MA5-14991
p-PERK	Invitrogen	MA5-15033	WB: 1:1000	https://www.thermofisher.com/antibody/product/Phospho-PERK-Thr980-Antibody-clone-G-305-4-Monoclonal/MA5-15033
PERK	Proteintech	20582-1-AP	WB: 1:1000 IF: 1:100	https://www.ptglab.com/products/PERK-Antibody-20582-1-AP.htm
sXBP1 (Human)	Cell Signaling	12782	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/xbp-1s-d2c1f-rabbit-mab/12782
sXBP1 (mouse)	Cell Signaling	82914	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/xbp-1s-e8y5f-rabbit-mab-rodent-specific/82914

ATF6	Invitrogen	PA5-20216	WB 1:1000	https://www.thermofisher.com/antibody/product/ATF6-Antibody-Polyclonal/PA5-20216
GRP94	Cell Signaling	20292	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/grp94-d6x2q-xp-rabbit-mab/20292
PDI	Cell Signaling	2466S	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/pdi-antibody/2446
Calreticulin	Cell Signaling	12238	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/calreticulin-d3e6-xp-rabbit-mab/12238
p-eIF2 α	Abcam	Ab32157	WB: 1:2000	https://www.abcam.com/eif2s1-phospho-s51-antibody-e90-ab32157.html
eIF2 α	Invitrogen	MA5-31724	WB: 1:1000	https://www.thermofisher.com/antibody/product/EIF2A-Antibody-clone-3A7B11-Monoclonal/MA5-31724
Cleaved caspase-3	Cell Signaling	9664	WB: 1:1000 IF: 1:400	https://www.cellsignal.com/products/primary-antibodies/cleaved-caspase-3-asp175-5a1e-rabbit-mab/9664
Bcl-2	Cell Signaling	3498	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/bcl-2-d17c4-rabbit-mab-mouse-preferred/3498
Bax	Cell Signaling	2772	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/bax-antibody/2772
p-p38	Cell Signaling	4511	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/2hosphor-p38-mapk-thr180-tyr182-d3f9-xp-rabbit-mab/4511
p38	Cell Signaling	14451	WB: 1:1500	https://www.cellsignal.com/products/antibody-conjugates/p38-mapk-d13e1-xp-rabbit-mab-hrp-conjugate/14451
p-PLC γ 2	Cell Signaling	3871	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/2hosphor-plcg2-tyr1217-antibody/3871
PLC γ 2	Cell Signaling	3872	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/plcg2-antibody/3872
pPLC β 3	Cell Signaling	29021	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/2hosphor-plcbeta3-ser537-d8k2r-rabbit-mab/29021?site-search-type=Products&N=4294956287&Ntt=plc+beta&fromPage=plp
PLC β 3	Cell Signaling	14247	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/plcbeta3-d9d6s-rabbit-mab/14247
p-Protein Kinase C δ	Cell Signaling	9374	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/2hosphor-pkcd-thr505-antibody/9374
PKC δ	Cell Signaling	2508	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/pkcd-antibody/2058

p-Protein Kinase A C α	Cell Signaling	4781	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/3hosphor-pka-c-thr197-antibody/4781
Protein Kinase A C α	Cell Signaling	4782	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/pka-c-a-antibody/4782
p-Akt	Cell Signaling	9018	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/3hosphor-akt1-ser473-d7f10-xp-rabbit-mab-akt1-specific/9018
Akt	Cell Signaling	2938	WB: 1:1500	https://www.cellsignal.com/products/primary-antibodies/akt1-c73h10-rabbit-mab/2938
CHOP	Cell Signaling	2895	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/chop-l63f7-mouse-mab/2895
ATF4	Cell Signaling	11815	WB: 1:1000	https://www.cellsignal.com/products/primary-antibodies/atf-4-d4b8-rabbit-mab/11815
GAPDH	Cell Signaling	8884	WB: 1:4000	https://www.cellsignal.com/products/antibody-conjugates/gapdh-d16h11-xp-rabbit-mab-hrp-conjugate/8884
GAPDH	Cell Signaling	2118	WB: 1:3000	https://www.cellsignal.com/products/primary-antibodies/gapdh-14c10-rabbit-mab/2118
Anti-rabbit IgG, HRP-linked Antibody	Cell Signaling	7074	WB: 1:5000	https://www.cellsignal.com/products/secondary-antibodies/anti-rabbit-igg-hrp-linked-antibody/7074
Anti-mouse IgG, HRP-linked Antibody	Cell Signaling	7076	WB: 1:5000	https://www.cellsignal.com/products/secondary-antibodies/anti-mouse-igg-hrp-linked-antibody/7076
P-selectin (CD62p, Human)	Biologend	304918	IF: 1:50	https://www.biologend.com/en-us/products/alexa-fluor-647-anti-human-cd62p-p-selectin-antibody-3348
FITC CD41 (Human)	Biologend	303704	IF: 1:50 FC: 1:20	https://www.biologend.com/en-us/products/fitc-anti-human-cd41-antibody-736
CD41 (Mouse)	Biologend	133903	IF: 1:50	https://www.biologend.com/en-us/products/fitc-anti-mouse-cd41-antibody-5896
CD41 (Mouse)	Biologend	133912	FC: 1:25	https://www.biologend.com/en-us/products/brilliant-violet-421-anti-mouse-cd41-antibody-7558
P-selectin (CD62p, Human)	Biologend	304910	FC: 1:20	https://www.biologend.com/en-us/products/apc-anti-human-cd62p-p-selectin-antibody-592
P-selectin (CD62p, Mouse)	Biologend	148304	FC: 1:20	https://www.biologend.com/en-us/products/apc-anti-mouse-rat-cd62p-p-selectin-antibody-10805
Donkey anti-Rabbit IgG (H+L)	Invitrogen	A-21207	IF: 1:400	https://www.thermofisher.com/antibody/product/Donkey-anti-Rabbit-IgG-H-L-

Antibody, Alexa Fluor™ 594				Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-21207
Donkey anti-Mouse IgG (H+L) Alexa Fluor™ 647	Invitrogen	A-31571	IF 1:400	https://www.thermofisher.com/antibody/product/Donkey-anti-Mouse-IgG-H-L-Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-31571
FITC Mouse IgG1, κ Isotype Ctrl Antibody	Biologend	400108	IF: 1:50 FC:1:20	https://www.biologend.com/en-us/products/fitc-mouse-igg1-kappa-isotype-ctrl-1406
Brilliant Violet 421™ Rat IgG1, κ Isotype Ctrl Antibody	Biologend	400439	FC: 1:25	https://www.biologend.com/en-us/products/brilliant-violet-421-rat-igg1-kappa-isotype-ctrl-7134
FITC Rat IgG1, κ Isotype Ctrl Antibody	Biologend	400406	IF 1:50	https://www.biologend.com/en-us/products/fitc-rat-igg1-kappa-isotype-ctrl-1828
APC Mouse IgG2a, κ Isotype Ctrl Antibody	Biologend	400220	FC: 1:25	https://www.biologend.com/en-us/products/apc-mouse-igg2a-kappa-isotype-ctrl-1397
APC Mouse IgG1, κ Isotype Ctrl Antibody	Biologend	400120	FC: 1:25	https://www.biologend.com/en-us/products/apc-mouse-igg1-kappa-isotype-ctrl-1404

Kits

Reagents & Kits	Vendor or Source	Catalog #	Persistent ID / URL
Color-coded Prestained Protein Marker, Broad Range (10-250 kDa)	Cell Signaling	74124	https://www.cellsignal.com/products/experimental-controls/color-coded-prestained-protein-marker-broad-range-10-250-kda/74124
Color-coded Prestained Protein Marker, Broad Range (11-250 kDa)	Cell Signaling	14208	https://www.cellsignal.com/products/wb-ip-reagents/color-coded-prestained-protein-marker-broad-range-11-250-kda/14208
Prestained protein marker	Proteintech	PL00001	https://www.ptglab.com/products/Prestained-protein-marker-PL00001.htm
Prestained Protein Ladder (extra broad range)	Abcam	ab234592	https://www.abcam.com/prestained-protein-ladder--extra-broad-molecular-weight-65--270-kda-ab234592.html
Precision Plus Protein Dual Color Standards	Biorad	1610374	https://www.bio-rad.com/en-us/sku/1610374-precision-plus-protein-dual-color-standards-500-ul?ID=1610374

Precision Plus Protein™ Kaleidoscope™ Prestained Protein Standards	Biorad	1610375	https://www.bio-rad.com/en-us/sku/1610375-precision-plus-protein-kaleidoscope-prestained-protein-standards?ID=1610375
PageRuler™ Plus Prestained Protein Ladder	Thermo Scientific	26620	https://www.thermofisher.com/order/catalog/product/26620#/26620
Spectra™ Multicolor Broad Range Protein Ladder	Thermo Scientific	26634	https://www.thermofisher.com/order/catalog/product/26634?SID=srch-srp-26634
Restore™ PLUS Western Blot Stripping Buffer	Thermo Scientific	46430	https://www.thermofisher.com/order/catalog/product/46430
RIPA Buffers	Cell Signaling	9806	https://www.cellsignal.com/products/buffers-dyes/ripa-buffer-10x/9806
P-Selectin Mouse ELISA Kit	Invitrogen	EMSELP	https://www.thermofisher.com/elisa/product/P-Selectin-Mouse-ELISA-Kit/EMSELP
P-Selectin (Soluble) (CD62) Human ELISA Kit	Invitrogen	BMS219-4	https://www.thermofisher.com/elisa/product/P-Selectin-Soluble-CD62-Human-ELISA-Kit/BMS219-4
PROTEOSTAT® Protein aggregation assay	Enzo Life Sciences	ENZ-51023	https://www.enzolifesciences.com/ENZ-51023/proteostat-protein-aggregation-assay/
PROTEOSTAT® Protein aggregation standards	Enzo Life Sciences	ENZ-51039	https://www.enzolifesciences.com/ENZ-51039/
Pierce™ BCA Protein Assay Kit	Thermo Scientific	23225	https://www.thermofisher.com/order/catalog/product/23225?SID=srch-srp-23225
SuperSignal™ West Pico PLUS Chemiluminescent Substrate	Thermo Scientific	34577	https://www.thermofisher.com/order/catalog/product/34577
SuperSignal™ West Femto Maximum Sensitivity Substrate	Thermo Scientific	34096	https://www.thermofisher.com/order/catalog/product/34096
Protein Carbonyl Content Assay Kit	Abcam	ab126287	https://www.abcam.com/protein-carbonyl-content-assay-kit-ab126287.html
Carstairs Staining Kit	Electron Microscopy Sciences	26381-Series	https://www.emsdiasum.com/microscopy/technical/datasheet/26381.aspx
Zymograph Direct-zol kit	Zymo Reseach	R2050	https://www.zymoresearch.com/products/direct-zol-rna-miniprep-kits
Caspase-3 activity kit (colorimetric)	Abcam	ab39401	https://www.abcam.com/caspase-3-assay-kit-colorimetric-ab39401.html
iScript cDNA synthesis kit	Bio-Rad	1708891	https://www.bio-rad.com/en-us/sku/1708891-iscript-cdna-synthesis-kit-100-x-20-ul-rxns?ID=1708891

Human Unfolded Protein Response RT2 Profiler PCR Array System	Qiagen	PAHS-089Z	https://www.qiagen.com/us/products/discovery-and-translational-research/pcr-qpcr-dpcr/qpcr-assays-and-instruments/mrna-incrna-qpcr-assays-panels/rt2-profiler-pcr-arrays/
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