

Rabbit Anti-IRE1 antibody

SL8680R

Product Name:	IRE1
Chinese Name:	内质网核Signal transduction蛋白a1抗体
Alias:	IRE1a; Endoplasmic reticulum (ER) to nucleus signalling 1; Endoplasmic reticulum to nucleus signaling 1; Endoplasmic reticulum-to-nucleus signaling 1; Endoribonuclease; ER to nucleus signaling 1; ERN 1; ERN1; ERN1_HUMAN; hIRE 1p; hIRE1p; Inositol requiring 1; Inositol requiring protein 1; Inositol-requiring protein 1; IRE-1; IRE 1; IRE 1a; IRE 1P; Ire1 alpha; Ire1-alpha; Ire1alpha; IRE1P; MGC163277; Protein kinase/endoribonuclease; Serine/threonine protein kinase/endoribonuclease IRE1.
	Specific References(5) SL8680R has been referenced in 5 publications.
	[IF=3.12]Jiang, H-Q., et al. "Guanabenz Delays the Onset of Disease Symptoms,
	Extends Lifespan, Improves Motor Performance and Attenuates Motor Neuron Loss in
	the SOD1 G93A Mouse Model of Amyotrophic Lateral Sclerosis." Neuroscience
	(2014).WB;Mouse.
	PubMed:24699224
文献引用	IF=4.19 Xu, Demei, et al. "Polychlorinated biphenyl quinone induces endoplasmic
Pub Med	reticulum stress, unfolded protein response and calcium release." Chemical Research in
	Toxicology (2015).WB;Human.
	PubMed:25950987
	[IF=4.86]Jiang, Mingfang, et al. "Down-regulation of miR-384-5p Attenuates Rotenone-
	induced Neurotoxicity in Dopaminergic SH-SY5Y Cells Through Inhibiting
	Endoplasmic Reticulum Stress." American Journal of Physiology-Cell Physiology
	(2016): ajpcell-00226. WB;Human .
	PubMed:26864693

	[IF=3.29]Yan, Jiting, et al. "Catalpol prevents alteration of cholesterol homeostasis in
	non-alcoholic fatty liver disease via attenuating endoplasmic reticulum stress and NOX4
	over-expression." RSC Advances 7.2 (2017): 1161-1176.WB;Human.
	PubMed:0
	[IF=3.28]Chen, Li, et al. "Influence of resveratrol on endoplasmic reticulum stress and
	expression of adipokines in adipose tissues/adipocytes induced by high-calorie diet or
	palmitic acid." Endocrine (2016): 1-13.WB;Mouse.
	PubMed:28070709
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testICC=1:100-
Applications:	500IF=1:100-500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	105kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	
immunogen:	KLH conjugated synthetic peptide derived from human IRE1a:252-260/977
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
	The protein encoded by this gene is the ER to nucleus signalling 1 protein, a human homologue of the yeast Ire1 gene product. This protein possesses intrinsic kinase activity and an endoribonuclease activity and it is important in altering gene expression as a response to endoplasmic reticulum-based stress signals. [provided by RefSeq, Jul 2008]
Product Detail:	Function: Senses unfolded proteins in the lumen of the endoplasmic reticulum via its N-terminal domain which leads to enzyme auto-activation. The active endoribonuclease domain splices XBP1 mRNA to generate a new C-terminus, converting it into a potent unfolded-protein response transcriptional activator and triggering growth arrest and apoptosis.
	Subunit: Homodimer; disulfide-linked. Dimer formation is driven by hydrophobic interactions
L	promounier, disuntae mixed. Dimer formation is arriven by nydrophoble interactions

within the N-terminal luminal domains and stabilized by disulfide bridges. Also binds HSPA5, a negative regulator of the unfolded protein response. This interaction may disrupt homodimerization and prevent activation of ERN1. Interacts with TAOK3 and TRAF2.

Subcellular Location: Endoplasmic reticulum membrane.

Tissue Specificity: Ubiquitously expressed. High levels observed in pancreatic tissue.

Post-translational modifications: Autophosphorylated.

Similarity:

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 KEN domain. loioite Contains 1 protein kinase domain.

SWISS: O75460

Gene ID: 2081

Database links:

Entrez Gene: 2081 Human

Entrez Gene: 78943 Mouse

Entrez Gene: 498013 Rat

Omim: 604033 Human

SwissProt: 075460 Human

SwissProt: Q9EQY0 Mouse

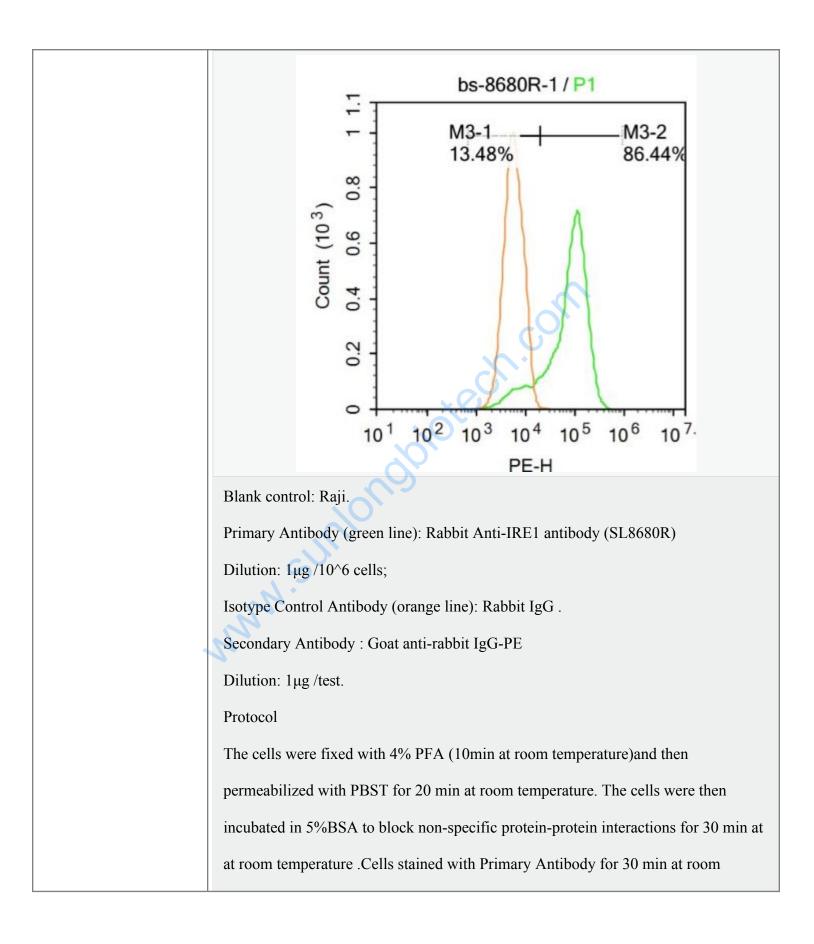
Unigene: 133982 Human

Unigene: 592041 Human

Unigene: 700027 Human

Unigene: 20452 Mouse

	Unigene: 340943 Mouse
	<u>Unigene: 226435</u> Rat
	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IRE1) Polyclonal Antibody, Unconjugated (SL8680R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



temperature. The secondary antibody used for 40 min at room temperature.
Acquisition of 20,000 events was performed.

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