



Rabbit Anti-phospho-IRE1a (Ser 726) antibody

SL4308R

Product Name:	phospho-IRE1a (Ser 726)
Chinese Name:	磷酸化内质网核Signal transduction蛋白a1抗体
Alias:	p-IRE1a (phospho-Ser 726); IRE1 (phospho S726) ; IRE1 alpha (p-Ser726); 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 1a; IRE 1P; Ire1 alpha; Ire1-alpha; IRE1a; Ire1alpha; IRE1P; MGC163277; Protein kinase/endoribonuclease; Serine/threonine protein kinase/endoribonuclease IRE1.ERN1_HUMAN
文献引用 PubMed :	<p>Specific References(2) SL4308R has been referenced in 2 publications.</p> <p>[IF=4.19]Xu, Demei, et al. "Polychlorinated biphenyl quinone induces endoplasmic reticulum stress, unfolded protein response and calcium release." Chemical Research in Toxicology (2015).WB;Human. PubMed:25950987</p> <p>[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</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testICC=1:100-

	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:	107kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human IRE1a around the phosphorylation site of Ser726 :SF(p-S)RR
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
Product Detail:	<p>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.</p> <p>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.</p> <p>Subunit: Homodimer; disulfide-linked. Dimer formation is driven by hydrophobic 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.</p> <p>Subcellular Location: Endoplasmic reticulum membrane; Single-pass type I membrane protein.</p> <p>Tissue Specificity: Ubiquitously expressed. High levels observed in pancreatic tissue.</p> <p>Post-translational modifications: Autophosphorylated.</p> <p>Similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.</p>

Contains 1 KEN domain.
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: O75460](#)Human

[SwissProt: Q9EQY0](#)Mouse

[Unigene: 133982](#)Human

[Unigene: 592041](#)Human

[Unigene: 700027](#)Human

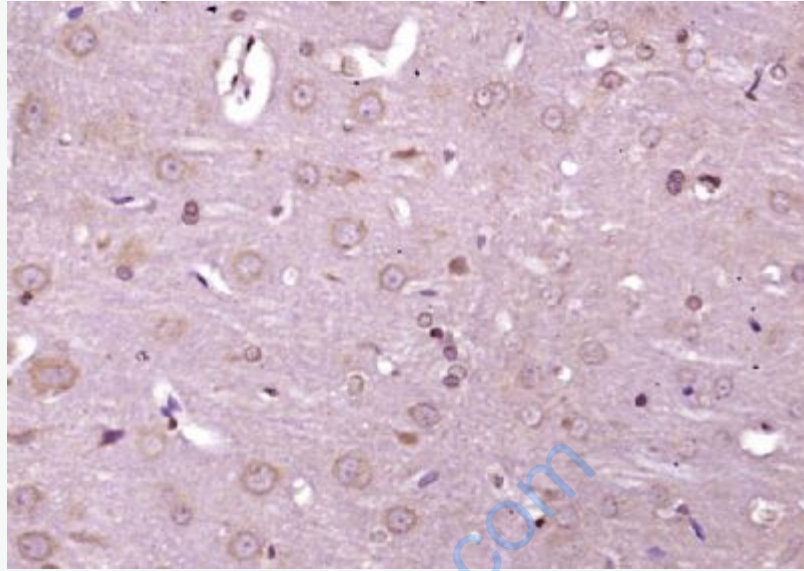
[Unigene: 20452](#)Mouse

[Unigene: 340943](#)Mouse

[Unigene: 226435](#)Rat

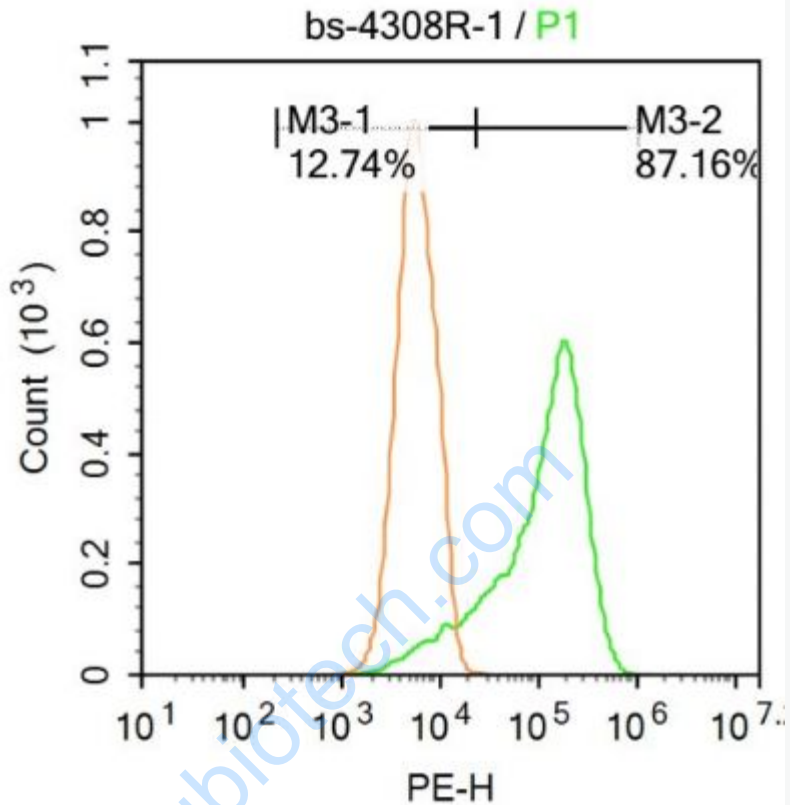
Important Note:

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 tissue); 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 (IRE1a (Ser 726)) Polyclonal Antibody, Unconjugated (SL4308R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: Raji.

Primary Antibody (green line): Rabbit Anti-phospho-IRE1a (Ser 726) antibody (SL4308R)

Dilution: 1 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1 μ g /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at

at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.