

Rabbit IRE1p Polyclonal Antibody | anti-ERN1 antibody

IRE1p Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39366	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

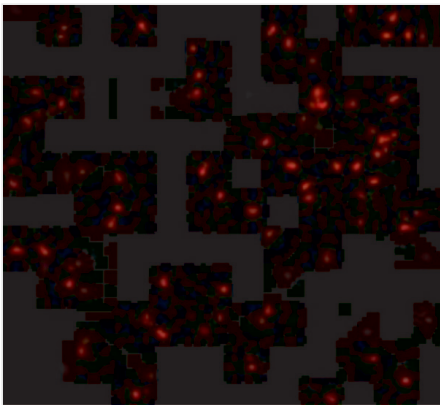
PRODUCT SYNONYMS

IRE1p; Polyclonal Antibody; IRE1p Antibody; IRE1; IRE1P; IRE1a; hIRE1p; Endoplasmic reticulum-to-nucleus signaling 1; endoplasmic reticulum to nucleus signaling 1; anti-ERN1 antibody

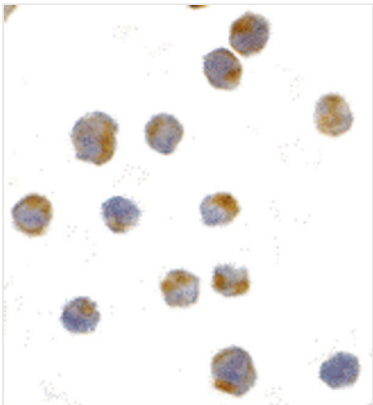
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	IRE1p Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	977
Applicable Applications for anti-ERN1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	IRE1p antibody was raised against a 15 amino acid synthetic peptide from near the amino terminus of human IRE1p.
Buffer	IRE1p Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	IRE1p antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

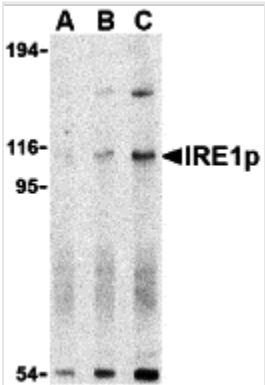
IMAGES



IF (Immunofluorescence)
Immunofluorescence of IRE1p in A20 cells with IRE1p antibody at 10 μ g/mL.



ICC (Immunocytochemistry)
Immunocytochemistry of IRE1p in A20 cells with IRE1p antibody at 1 μ g/mL.



WB (Western Blot)
Western blot analysis of IRE1p in A-20 cell lysate with IRE1p antibody at (A) 0.5, (B) 1 and (C) 2 μ g/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-ERN1 antibody

IRE1p Antibody: Accumulation of malformed proteins in the endoplasmic reticulum (ER) activates the unfolded protein response (UPR) and the upregulation of the ER molecular chaperones GRP78 and GRP 94. These proteins are normally bound to ER transmembrane proteins such as IRE1p and ATF6 but ER stress causes their dissociation. This allows IRE1p, a serine-threonine protein kinase to transduce the unfolded protein signal from the ER to the nucleus. IRE1p also has an endoribonuclease activity that is required to splice X-box binding protein (XBP1) mRNA converting it to a potent UPR transcriptional activation. Depletion of IRE1p through the expression of a dominant negative form of IRE1p has no effect on transfected cells, but cell death via apoptosis occurs under stress conditions that cause unfolded proteins to accumulate in the ER. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene.

NCBI AND UNIPROT INFORMATION

NCBI GI #	193806335
NCBI GeneID	2081
UniProt Accession #	O75460; Q59EE2; A1L457; A8K8N8; A8MXS7
Molecular Weight	6,649 Da
NCBI Official Full Name	Serine/threonine-protein kinase/endoribonuclease IRE1
NCBI Official Synonym Full Names	endoplasmic reticulum to nucleus signaling 1
NCBI Official Symbol	ERN1

NCBI Official Synonym Symbols	IRE1; IRE1P; IRE1a; hIRE1p
NCBI Protein Information	serine/threonine-protein kinase/endoribonuclease IRE1; ERN1; ire1-alpha; inositol-requiring 1; ER to nucleus signalling 1; inositol-requiring enzyme 1; inositol-requiring protein 1; endoplasmic reticulum-to-nucleus signaling 1
UniProt Protein Name	Serine/threonine-protein kinase/endoribonuclease IRE1
UniProt Gene Name	ERN1
UniProt Synonym Gene Names	hIRE1p; IRE1a
UniProt Entry Name	ERN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ire1p-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/39366>