ARG40603
anti-IRE1a phospho (Ser724) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IRE1a phospho (Ser724)
Tested Reactivity	Ms
Predict Reactivity	Hu, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IRE1a
Species	Human
Immunogen	Phosphospecific peptide around Ser724 of Human IRE1a.
Conjugation	Un-conjugated
Alternate Names	Ire1-alpha; Serine/threonine-protein kinase/endoribonuclease IRE1; IRE1a; Endoplasmic reticulum-to-nucleus signaling 1; EC 3.1.26.-; IRE1; Inositol-requiring protein 1; IRE1P; EC 2.7.11.1; hIRE1p

Application Instructions

Application table

Application	Dilution
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	NIH/3T3
Observed Size	130 kDa

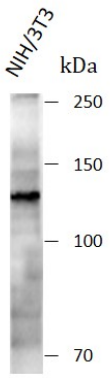
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ERN1
Gene Full Name	endoplasmic reticulum to nucleus signaling 1
Background	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]
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. [UniProt]
Calculated Mw	110 kDa
PTM	Autophosphorylated. ADP-ribosylated by PARP16 upon ER stress, which increases both kinase and endonuclease activities. [UniProt]
Cellular Localization	Endoplasmic reticulum membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG40603 anti-IRE1a phospho (Ser724) antibody WB image

Western blot: NIH/3T3 were stained with ARG40603 anti-IRE1a phospho (Ser724) antibody at 1:800 dilution.