

# Product datasheet

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# ARG40739 anti-IRE1a phospho (Ser724) antibody

Package: 100 μl Store at: -20°C

## **Summary**

Product Description Rabbit Polyclonal antibody recognizes IRE1a phospho (Ser724)

Tested Reactivity Hu

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.	

# **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.4), 150 mM NaCl, 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 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

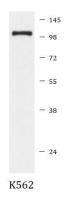
PTM Autophosphorylated.

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**



#### ARG40739 anti-IRE1a phospho (Ser724) antibody WB image

Western blot: K562 cell lysate stained with ARG40739 anti-IRE1a phospho (Ser724) antibody.