

Phospho-IRE1-S724 Rabbit mAb

Catalog No.: AP1442 **Recombinant** **1 Publications**

Basic Information

Observed MW

130kDa

Calculated MW

110kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC, IHC-P

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC62282

Background

This gene encodes the transmembrane protein kinase inositol-requiring enzyme 1. The encoded protein contains two functional catalytic domains, a serine/threonine-protein kinase domain and an endoribonuclease domain. This protein functions as a sensor of unfolded proteins in the endoplasmic reticulum (ER) and triggers an intracellular signaling pathway termed the unfolded protein response (UPR). The UPR is an ER stress response that is conserved from yeast to mammals and activates genes involved in degrading misfolded proteins, regulating protein synthesis and activating molecular chaperones. This protein specifically mediates the splicing and activation of the stress response transcription factor X-box binding protein 1.

Recommended Dilutions

WB	1:1000 - 1:5000
IF/ICC	1:50 - 1:200
IHC-P	1:50 - 1:200

Immunogen Information

Gene ID

2081

Swiss Prot

O75460

Immunogen

A synthetic phosphorylated peptide around S724 of human IRE1(NP_001424.3).

Synonyms

IRE1; IRE1P; IRE1a; hIRE1p; Phospho-IRE1-S724

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

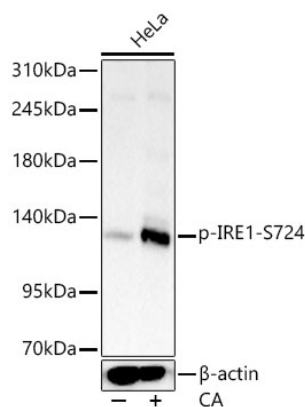
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of HeLa, using Phospho-IRE1-S724 Rabbit mAb (AP1442) at 1:3000 dilution. HeLa cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.

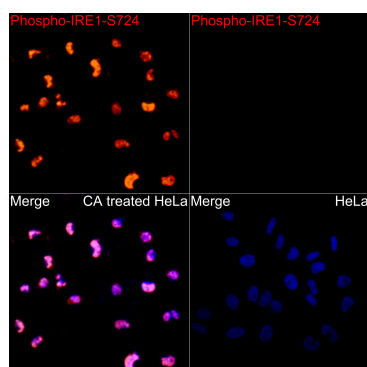
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

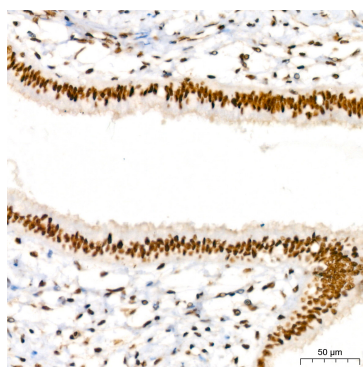
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

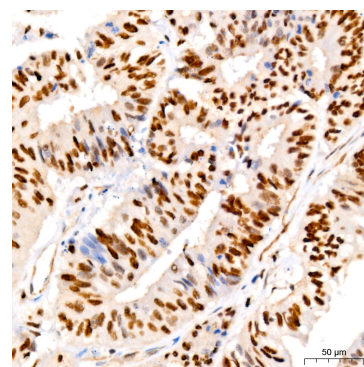
Exposure time: 1s.



Immunofluorescence analysis of HeLa treated with CA and HeLa cells using Phospho-IRE1-S724 Rabbit mAb (AP1442) at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded human cervix using Phospho-IRE1-S724 Rabbit mAb (AP1442) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma using Phospho-IRE1-S724 Rabbit mAb (AP1442) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.