

# Phospho-IRE1-S724 Rabbit mAb

Catalog No.: AP1146

Recombinant

9 Publications

## Basic Information

**Observed MW**

130kDa

**Calculated MW**

110kDa

**Category**

Primary antibody

**Applications**

WB, ELISA

**Cross-Reactivity**

Human, Mouse

**CloneNo number**

ARC1607

## 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** 1:500 - 1:1000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

2081

**Swiss Prot**

O75460

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

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

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

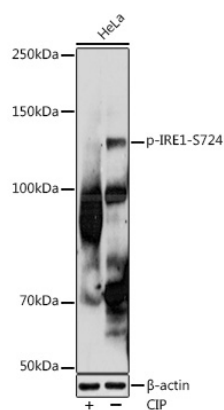
**Storage**

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

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of lysates from HeLa cells, using Phospho-IRE1-S724 Rabbit mAb (AP1146) at 1:1000 dilution. HeLa cells were treated by CIP(20uL/400ul) at 37°C for 1 hour.  
Secondary antibody: HRP-conjugated 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 Enhanced Kit (RM00021).  
Exposure time: 300s.