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Phospho-IRE1-S724 Rabbit pAb

Catalog No.: AP0878SP

Basic Information

Observed MW
130 kDa

Calculated MW
110 kDa

Category
Primary antibody

Applications
WB,IF/ICC,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

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 - 1:2000
IF/ICC	1:100 - 1:200
IHC-P	1:4000 - 1:16000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
2081

Swiss Prot
O75460

Immunogen
This information is considered to be commercially sensitive.

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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.
May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Validation Data

Western blot analysis of various lysates using Phospho-IRE1-S724 Rabbit pAb (AP0878SP) at 1:1000 dilution incubated overnight at 4℃. HeLa cells treated with CA (100 nM) at 37℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.

Western blot analysis of various lysates using Phospho-IRE1-S724 Rabbit pAb (AP0878SP) at 1:1000 dilution incubated overnight at 4℃. C6 cells treated with CA (50 nM) at 37℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.

Immunofluorescence analysis of HeLa cells (treated with CA) and HeLa cells (untreated) using Phospho-IRE1-S724 Rabbit pAb (AP0878SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of NIH/3T3 cells (treated with CA) and NIH/3T3 cells (untreated) using Phospho-IRE1-S724 Rabbit pAb (AP0878SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of C6 cells (treated with CA) and C6 cells (untreated) using Phospho-IRE1-S724 Rabbit pAb (AP0878SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Validation Data

Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue, untreated (left) and lambda phosphatase-treated (right), tissue using Phospho-IRE1-S724 Rabbit pAb (AP0878SP) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human colon tissue, untreated (left) and lambda phosphatase-treated (right), tissue using Phospho-IRE1-S724 Rabbit pAb (AP0878SP) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Rat brain tissue, untreated (left) and lambda phosphatase-treated (right), tissue using Phospho-IRE1-S724 Rabbit pAb (AP0878SP) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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