Product Datasheet

ERN1 Antibody (orb1239523)

Catalog Number	orb1239523
Category	Antibodies
Description	ERN1 Antibody
Target	ERN1
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Human, Mouse, Rat
Form/Appearance	Liquid
Concentration	1 mg/mL
Buffer/Preservatives	IRE1p Antibody is supplied in PBS containing 0.02% sodium azide.
Purification	IRE1p Antibody is affinity chromatography purified via peptide column.
Immunogen	Anti-IRE1p antibody (orb1239523) was raised against a peptide corresponding to 16 amino acids near the carboxy terminus of human IRE1P. The immunogen is located within the last 50 amino acids of IRE1p.
UniProt ID	O75460
MW	Predicted: 110kDObserved: 110kD
Tested applications	ELISA, ICC, IF, IHC-P, WB

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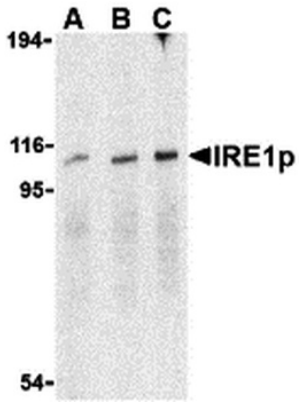
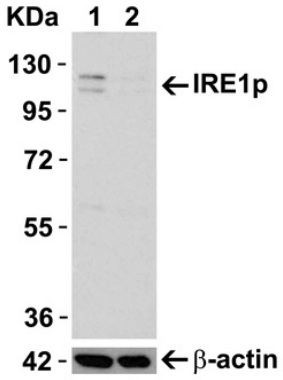
Antibody Type	Primary Antibody
Modifications	None
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
NCBI	O75460
Expiration Date	12 months from date of receipt.



Western Blot Validation in Mouse A20 Cell Lysate. Loading: 15 µg of lysates per lane. Antibodies: IRE1p orb1239523 (A: 0.5 µg/mL, B: 1 µg/mL, C: 2 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



KO Validation in HeLa Cells. Loading: 10 µg of WT cell lysates (lane 1) or IRE1P KO cell lysates (lane 2). Antibodies: IRE1P orb1239523 (0.5 µg/mL) and beta-actin (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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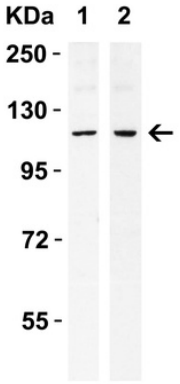
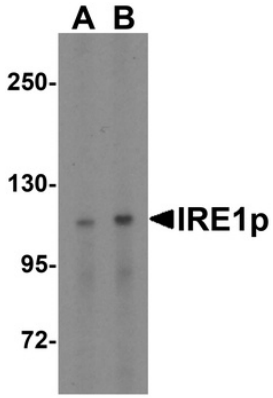
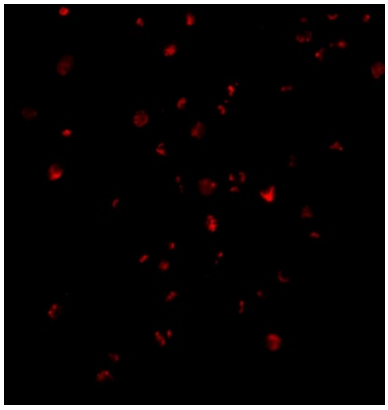


Western Blot Validation in Human Cell Lines. Loading: 15 µg of lysates per lane. Antibodies: IRE1p orb1239523 (0.4 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: Caco-2, Lane2: SK-N-SH.



Western Blot Validation in Rat Brain Tissue Lysate. Loading: 15 µg of lysates per lane. Antibodies: IRE1p orb1239523 (A: 0.5 µg/mL, B: 1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of IRE1p in Mouse A20 Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed A20 Cells labeling IRE1P with orb1239523 at 2 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

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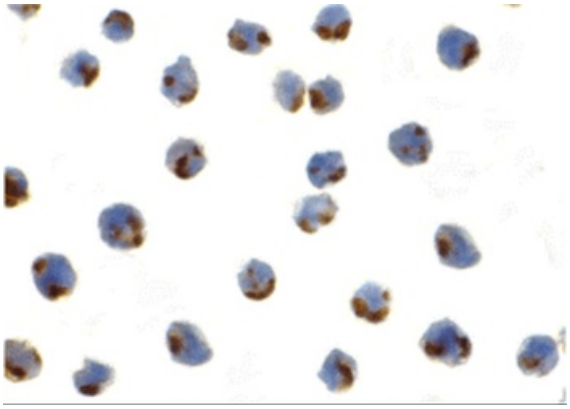
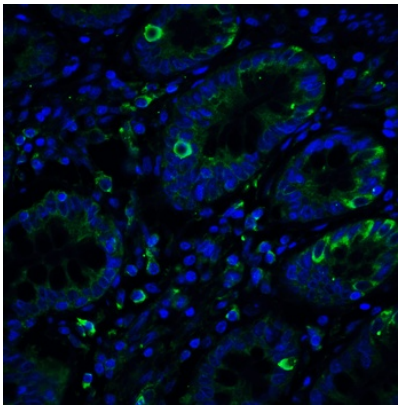
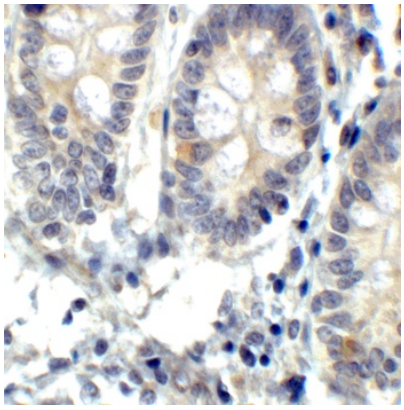


Immunocytochemistry Validation of IRE1p in Mouse A20 Cells. Immunocytochemical analysis of A20 cells using anti-IRE1p antibody (orb1239523) at 1 µg/ml. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Validation of IRE1p in Human Small Intestine Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed Human Small Intestine Tissue labeling IRE1p with orb1239523 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Immunohistochemistry Validation of IRE1p in Human Small Intestine Tissue. Immunohistochemical analysis of paraffin-embedded Human Small Intestine Tissue using anti-IRE1P antibody (orb1239523) at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

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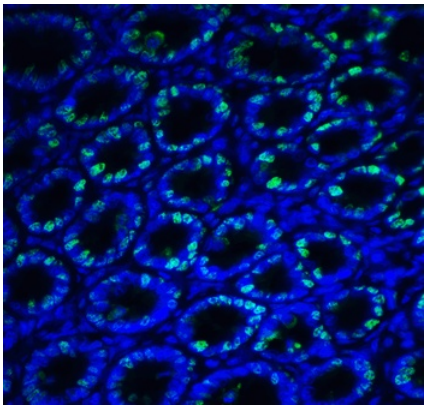
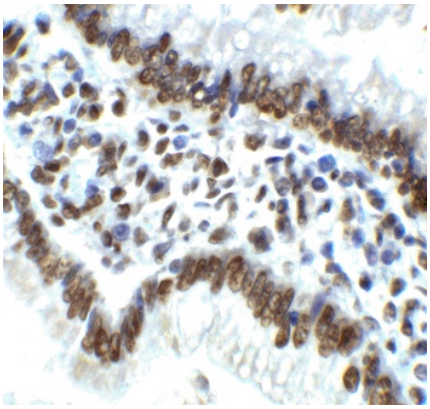
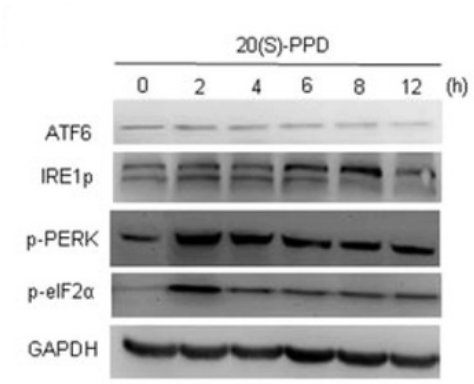


Immunofluorescence Validation of IRE1p in Rat Small Intestine Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed Rat Small Intestine Tissue labeling IRE1p with orb1239523 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Immunohistochemistry Validation of IRE1p in Rat Small Intestine Tissue. Immunohistochemical analysis of paraffin-embedded Rat Small Intestine Tissue using anti-IRE1P antibody (orb1239523) at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Induced Expression Validation of IRE1p in human umbilical vein endothelial cells (HUVECs) (Wang et al., 2019). IRE1p expression was examined by Western blot analysis with anti-IRE1p antibodies (orb1239523). IRE1p was increased in HUVEC cells treated with 10 µM 20 (S)-PPD for 6 to 8 hours compared with control cells.

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