

Datasheet: AHP1012

Description:	RABBIT ANTI IRE1p (C-TERMINAL)
Specificity:	IRE1p (C-TERMINAL)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen	■			
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			1 - 2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to IRE1p were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A 16 amino acid peptide near the carboxy terminus of human IRE1p.

**External Database
Links**

UniProt:

[O75460](#) [Related reagents](#)

Entrez Gene:

[2081](#) ERN1 [Related reagents](#)

Synonyms

IRE1

Specificity

Rabbit anri IRE1p antibody recognizes the C-terminus of inositol-requiring kinase 1 precursor (IRE1p), a 108 kDa serine-threonine kinase/endoribonuclease also known as ERN1. It is an endoplasmic reticulum (ER) transmembrane protein, normally bound to the ER molecular chaperones GRP78 and GRP94. At times of ER stress, due to accumulation of unfolded proteins, IRE1p becomes dissociated from the chaperones, which allows it to activate the un-folded protein transcriptional response (UPR). In the mammalian genome, there are two homologs Ire1alpha and Ire1beta. Ire1alpha is expressed in all cells and tissues, Ire1beta expression is primarily restricted to intestinal epithelial cells.

Western Blotting

AHP1012 detects a band of approximately 110kDa in A-20 cell lysate.

Further Reading

1. Zhang, K. & Kaufman, R.J. (2004) Signaling the unfolded protein response from the endoplasmic reticulum. [J Biol Chem. 279 \(25\): 25935-8.](#)
2. Schröder, M. *et al.* (2003) IRE1- and HAC1-independent transcriptional regulation in the unfolded protein response of yeast. [Mol Microbiol. 49 \(3\): 591-606.](#)
3. Tirasophon, W. *et al.* (1998) A stress response pathway from the endoplasmic reticulum to the nucleus requires a novel bifunctional protein kinase/endoribonuclease (Ire1p) in mammalian cells. [Genes Dev. 12 \(12\): 1812-24.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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