Datasheet: AHP1012

BATCH NUMBER 144723

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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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
RRID	AB_609821
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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1012

	10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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