

Datasheet: AHP964

Description:	RABBIT ANTI CASPASE-4 (N-TERMINAL)
Specificity:	CASPASE-4 (N-TERMINAL)
Other names:	ICH-2
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	▪			2.0ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1.0ug/ml

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Mouse</p> <p>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.</p>
Product Form	Purified IgG - liquid
Preparation	Antisera to human Caspase-4 (NT) were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	A 16 amino acid peptide from human Caspase-4 amino terminus.
External Database Links	<p>UniProt: P49662 Related reagents</p> <p>Entrez Gene: 837 CASP4 Related reagents</p>
Synonyms	ICH2
RRID	AB_2070198
Specificity	<p>Rabbit anti caspase-4 (N-terminal) antibody recognizes an epitope within the N-terminal region (NT) of Caspase-4, otherwise known as ICH-2. Caspase-4, a member of the Caspase-1 subfamily of cysteine proteases, exists as an inactive pro-enzyme which undergoes proteolytic cleavage of its p30 precursor form, into smaller p20 and p10 subunits.</p> <p>Caspase-4 is localized to the endoplasmic reticulum (ER) membrane and is involved in response to ER membrane stress in conditions including Alzheimer's disease and Ischemia and confirms the involvement of Caspase-4 as an instigator of cellular apoptosis.</p>
Immunohistology	*This product does not require protein digestion pre-treatment of paraffin embedded sections e.g. trypsin or pronase prior to staining. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
Histology Positive Control Tissue	Spleen tissue.
Western Blotting	AHP964 detects a band of approximately 34 kDa in Ramos cell lysates.
References	1. Katayama, T. <i>et al.</i> (2004) Induction of neuronal death by ER stress in Alzheimer's disease. J Chem Neuroanat. 28 (1-2): 67-78.
Further Reading	<p>1. Kamens, J. <i>et al.</i> (1995) Identification and characterization of ICH-2, a novel member of the interleukin-1 beta-converting enzyme family of cysteine proteases. J Biol Chem. 270 (25): 15250-6.</p> <p>2. Cohen, G.M. (1997) Caspases: the executioners of apoptosis. Biochem J. 326 (Pt 1): 1-16.</p>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP964 10040
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Regulatory	For research purposes only
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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

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
- [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](https://www.bio-rad-antibodies.com/datasheets)
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