

Datasheet: AHP964

**BATCH NUMBER 280212R**

<b>Description:</b>	RABBIT ANTI CASPASE-4 (N-TERMINAL)
<b>Specificity:</b>	CASPASE-4 (N-TERMINAL)
<b>Other names:</b>	ICH-2
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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

Reacts with: 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

### 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.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	A 16 amino acid peptide from human Caspase-4 amino terminus.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P49662</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">837</a>    CASP4    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	ICH2
<b>RRID</b>	AB_2070198
<b>Specificity</b>	<p><b>Rabbit anti caspase-4 (N-terminal) antibody</b> 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>The cellular localization of Caspase-4 on the endoplasmic reticulum (ER) membrane, has resulted in this protein becoming a focus of studies in which dysfunction or stress to the ER membrane is implicated, such as Alzheimer's disease and Ischemia and confirms the involvement of Caspase-4 as an instigator of cellular apoptosis.</p>
<b>Immunohistology</b>	*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.
<b>Histology Positive Control Tissue</b>	Spleen tissue.
<b>Western Blotting</b>	AHP964 detects a band of approximately 34 kDa in Ramos cell lysates.
<b>References</b>	1. Katayama, T. <i>et al.</i> (2004) Induction of neuronal death by ER stress in Alzheimer's disease. <a href="#">J Chem Neuroanat. 28 (1-2): 67-78.</a>
<b>Further Reading</b>	<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. <a href="#">J Biol Chem. 270 (25): 15250-6.</a></p> <p>2. Cohen, G.M. (1997) Caspases: the executioners of apoptosis. <a href="#">Biochem J. 326 ( Pt 1): 1-16.</a></p>

**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**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 (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [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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