

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	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
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**

UniProt:

[P49662](#) [Related reagents](#)

Entrez Gene:

[837](#) CASP4 [Related reagents](#)

Synonyms

ICH2

Specificity

Rabbit anti caspase-4 (N-terminal) antibody

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.

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. *et al.* (2004) Induction of neuronal death by ER stress in Alzheimer's disease. [J Chem Neuroanat. 28 \(1-2\): 67-78.](#)

Further Reading

1. Kamens, J. *et al.* (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.](#)
2. Cohen, G.M. (1997) Caspases: the executioners of apoptosis. [Biochem J. 326 \(Pt 1\): 1-16.](#)

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.

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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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'M285738:160408'

Printed on 10 May 2018

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