

Datasheet: AHP965

BATCH NUMBER 155202

Description:	RABBIT ANTI HUMAN CASPASE-5
Specificity:	CASPASE-5
Other names:	ICH-3
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	▪			1.0ug/ml - 2.0ug/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
Product Form	Purified IgG - liquid
Preparation	Antisera to human Caspase-5 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	IgG concentration 1.0 mg/ml

Concentrations

Immunogen A 14 amino acid peptide from the centre of human Caspase-5.

External Database Links

UniProt:

[P51878](#) [Related reagents](#)

Entrez Gene:

[838](#) CASP5 [Related reagents](#)

Synonyms ICH3

RRID AB_2244017

Specificity

Rabbit anti Human Caspase-5 antibody recognizes an epitope located within the internal region of human Caspase-5, a ~47 kDa cysteine protease, otherwise known as ICH-3. Caspase-5 has been shown to be expressed at higher levels in the colon, lung, spleen, small intestine and by peripheral blood lymphocytes.

Caspase-5 is a member of a growing number of inflammatory caspases belonging to the Caspase-1 (ICE-type) subfamily, which require proteolytic processing of their inactive precursor into smaller active subunits. Unlike Caspase-1, Caspase-5 is not directly responsible for the activation of IL-1Beta from the pro-IL-1Beta precursor, but the presence of Caspase-5 does appear to enhance the processing of IL-1Beta.

The *in vivo* expression of Caspase-5 is elevated by Lipopolysaccharide (LPS) and gene expression is also increased by Interferon gamma. *In vitro* studies have shown cleavage of Caspase-5 by the serine protease Granzyme B, which plays a major role in cytotoxic T lymphocyte (CTL)-induced apoptosis ([Wang et al. 1996](#)).

Western Blotting

AHP965 detects a band of approximately 48 kDa in Ramos cell lysates. (Predicted precursor MWT 47.8kDa)

Further Reading

1. Wang, S. *et al.* (1996) Identification and characterization of Ich-3, a member of the interleukin-1beta converting enzyme (ICE)/Ced-3 family and an upstream regulator of ICE. [J Biol Chem. 271 \(34\): 20580-7.](#)
 2. Lin, X.Y. *et al.* (2000) Expression analysis of the human caspase-1 subfamily reveals specific regulation of the CASP5 gene by lipopolysaccharide and interferon-gamma. [J Biol Chem. 275 \(51\): 39920-6.](#)
 3. Munday, N.A. *et al.* (1995) Molecular cloning and pro-apoptotic activity of ICEreIII and ICEreIII, members of the ICE/CED-3 family of cysteine proteases. [J Biol Chem. 270 \(26\): 15870-6.](#)
 4. Cohen, G.M. (1997) Caspases: the executioners of apoptosis. [Biochem J. 326 \(Pt 1\): 1-16.](#)
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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.

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/AHP965 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

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

North & South America	Tel: +1 800 265 7376 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M364401:200529'

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