

## Datasheet: AHP965

<b>Description:</b>	RABBIT ANTI HUMAN CASPASE-5
<b>Specificity:</b>	CASPASE-5
<b>Other names:</b>	ICH-3
<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			▪	
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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Antisera to human Caspase-5 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 14 amino acid peptide from the centre of human Caspase-5.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P51878</a> <a href="#">Related reagents</a>

**Entrez Gene:**[838](#) [CASP5](#) [Related reagents](#)**Synonyms**

ICH3

**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.](#)

**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

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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