

Datasheet: AHP963 BATCH NUMBER 161012

Description:	RABBIT ANTI HUMAN CASPASE-1 (C-TERMINAL)		
Specificity:	CASPASE-1 (C-TERMINAL)		
Other names:	IL-1 BETA CONVERTING ENZYME		
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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry			•	
	Immunohistology - Frozen				
	Immunohistology - Paraffin (1)	•			2.0ug/ml
	ELISA			•	
	Immunoprecipitation			•	
	Western Blotting	•			0.5ug - 1.0ug/ml
	necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls. (1)This product does not require protein digestion pre-treatment of paraffin embedded sections e.g. trypsin or pronase prior to staining.				
Target Species	Human				
Product Form	Purified IgG - liquid				
Preparation	Antisera to human Caspase-1 (CT) 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 located near human Caspase-1 carboxy terminus.			
External Database Links	UniProt: <u>P29466</u> <u>Related reagents</u>			
	Entrez Gene: <u>834</u> CASP1 <u>Related reagents</u>			
Synonyms	IL1BC, IL1BCE			
RRID	AB_2069046			
Specificity	Rabbit anti Human Caspase-1 antibody recognizes an epitope within the C-terminal region (CT) of human Caspase-1, otherwise known as IL-1Beta converting enzyme. Caspase-1 is an intracellular cysteine protease, identified as a mammalian homologue <i>C. elegans</i> cell death gene (ced-3).			
	Caspase-1 has been classified as an inflammatory, rather than apoptotic caspase, due to its essential role in the cleavage of the inactive precursors of the cytokines IL-1beta and IL-18, into their mature activated and secretable forms.			
	Regulation of pro-inflammatory cytokines by Caspase-1 has made inhibitors of Caspase-1 a possible target for use as therapeutic drugs for the treatment of inflammatory diseases (<u>Ghayur <i>et al.</i> 1997</u>).			
	Rabbit anti Human Caspase-1 antibody detects a cleaved subunit band of approximately 21 kDa in human heart cell lysates (predicted precursor MWT 45.2kDa).			
Histology Positive Control Tissue	Human heart.			
References	1. Faner, R. <i>et al.</i> (2016) The inflammasome pathway in stable COPD and acute exacerbations. <u>ERJ Open Res. 2 (3): 00002-2016.</u>			
Further Reading	 Kostura, M.J. <i>et al.</i> (1989) Identification of a monocyte specific pre-interleukin 1 beta convertase activity. <u>Proc Natl Acad Sci U S A. 86 (14): 5227-31.</u> Miura, M. <i>et al.</i> (1993) Induction of apoptosis in fibroblasts by IL-1 beta-converting enzyme, a mammalian homolog of the <i>C. elegans</i> cell death gene ced-3. <u>Cell. 75 (4): 653-60.</u> Ghayur, T.<i>et al.</i> (1997) Caspase-1 processes IFN-gamma-inducing factor and regulates LPS-induced IFN-gamma production. <u>Nature. 386 (6625): 619-23.</u> Fantuzzi, G. <i>et al.</i> (1998) Interleukin-18 regulation of interferon gamma production and 			

	cell proliferation as shown in interleukin-1beta-converting enzyr mice. <u>Blood. 91 (6): 2118-25.</u>	ne (caspase-1)-deficient		
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and s -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 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			
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP963 10040			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34)	<u>FITC</u>		
Goat Anti Rabbit IgG (H/L) (STAR124) <u>HRP</u>		
Sheep Anti Rabbit IgG (STAR35)	<u>RPE</u>		
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)

North & South	Tel: +1 800 265 7376	Norldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.c	om	Email: antibody_sales_uk@bio-rac	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M390789:211004'

Printed on 18 Jan 2024

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