

Datasheet: MCA1930

Description:	MOUSE ANTI HUMAN MAST CELL CHYMASE
Specificity:	MAST CELL CHYMASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CC1
Isotype:	IgG1
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	▪			1/500 - 1/1000
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

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	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified human skin chymase.
External Database Links	<p>UniProt: P23946 Related reagents</p> <p>Entrez Gene: 1215 CMA1 Related reagents</p>
Synonyms	CYH, CYM
RRID	AB_2083618
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the P3/NSI/I.Ag4.1 mouse myeloma cell line.
Specificity	<p>Mouse anti Human Mast Cell Chymase antibody, clone CC1 binds to human mast cell chymase, an important marker of mast cells and also an important mediator of inflammation.</p> <p>Mouse anti Human Mast Cell Chymase antibody, clone CC1 may be used to detect mast cells in routinely fixed tissues, and has been used to study the distribution of mast cells in skin, synovium, lung and heart.</p> <p>Binding of Mouse anti Human Mast Cell Chymase antibody, clone CC1 to chymase is not reduced in the presence of heparin, suggesting that the antibody does not bind to the heparin-binding domain of chymase.</p>
Immunohistology	This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
Histology Positive Control Tissue	Skin
References	<ol style="list-style-type: none"> 1. Mauro, L.V. <i>et al.</i> (2008) Association between mast cells of different phenotypes and angiogenesis in colorectal cancer. Mol Med Rep. 1 (6): 895-902. 2. Dougherty, R.H. <i>et al.</i> (2010) Accumulation of intraepithelial mast cells with a unique protease phenotype in T(H)2-high asthma. J Allergy Clin Immunol. 125 (5): 1046-1053.e8. 3. Xiang, M. <i>et al.</i> (2011) Usefulness of serum tryptase level as an independent biomarker for coronary plaque instability in a Chinese population. Atherosclerosis. 215 (2): 494-9. 4. Sun, J. <i>et al.</i> (2009) Critical role of mast cell chymase in mouse abdominal aortic aneurysm formation. Circulation. 120: 973-82. 5. Laidlaw, T.M. <i>et al.</i> (2011) Characterization of a novel human mast cell line that responds to stem cell factor and expresses functional FcεRI. J Allergy Clin Immunol. 127: 815-22.e1-5.

6. Lin, A.M. *et al.* (2011) Mast Cells and Neutrophils Release IL-17 through Extracellular Trap Formation in Psoriasis. [J Immunol. 187: 490-500.](#)
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15. Suttle, M.M. & Harvima, I.T. (2016) Mast cell chymase in experimentally induced psoriasis. [J Dermatol. 43 \(6\): 693-6.](#)

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

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

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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