

Datasheet: MCA1930T

Description:	MOUSE ANTI HUMAN MAST CELL CHYMASE
Specificity:	MAST CELL CHYMASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CC1
Isotype:	IgG1
Quantity:	10 µg

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	▪			1ug/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	Purified IgG prepared by affinity chromatography on Protein G 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:</p> <p>P23946 Related reagents</p> <p>Entrez Gene:</p>

Synonyms	CYH, CYM
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Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the P3/NS1/I.Ag4.1 mouse myeloma cell line.
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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>
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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.
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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. <i>et al.</i> (2011) Mast Cells and Neutrophils Release IL-17 through Extracellular Trap Formation in Psoriasis. J Immunol. 187: 490-500.7. Veerappan, A. <i>et al.</i> (2012) Mast cells are required for the development of renal fibrosis in the rodent unilateral ureteral obstruction model. Am J Physiol Renal Physiol. 302 (1): F192-204.8. Buckley, M. Walls, A.F. (2008) Identification of mast cells and mast cell subpopulations. Methods Mol Med. 138: 285-97.9. Bhattacharya, S. <i>et al.</i> (2012) Genome-wide transcriptional profiling reveals connective tissue mast cell accumulation in bronchopulmonary dysplasia. Am J Respir Crit Care Med. 186: 349-58.10. Martin, L.J. <i>et al.</i> (2015) Pediatric Eosinophilic Esophagitis Symptom Scores (PEESS v2.0) identify histologic and molecular correlates of the key clinical features of disease. J Allergy Clin Immunol. 135 (6): 1519-28.e8.11. Badertscher, K. <i>et al.</i> (2005) Mast cell chymase is increased in chronic atopic dermatitis but not in psoriasis. Arch Dermatol Res. 296 (10): 503-6.12. Allam, J.P. <i>et al.</i> (2008) Distribution of Langerhans cells and mast cells within the human oral mucosa: new application sites of allergens in sublingual immunotherapy? Allergy. 63 (6): 720-7.13. Galatowicz, G. <i>et al.</i> (2007) Ocular anti-allergic compounds selectively inhibit human mast cell cytokines <i>in vitro</i> and conjunctival cell infiltration <i>in vivo</i>. Clin Exp Allergy. 37 (11): 1648-56.14. Lipitsä, T. <i>et al.</i> (2015) Mast cell tryptase and chymase in the progress of cutaneous vasculitis. Arch Dermatol Res. 307 (10): 917-24.15. Suttle, M.M. & Harvima, I.T. (2016) Mast cell chymase in experimentally induced psoriasis. J Dermatol. 43 (6): 693-6.
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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.

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

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

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

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