

Datasheet: MCA1438T

BATCH NUMBER 158834

Description:	MOUSE ANTI HUMAN MAST CELL TRYPTASE
Specificity:	MAST CELL TRYPTASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AA1
Isotype:	IgG1
Quantity:	20 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 (1)	▪			1/10,000
ELISA	▪			
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Dog, Monkey, Cat, Rat</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
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 Human mast cell tryptase purified from human lung tissue.

External Database Links

UniProt:

[P20231](#) [Related reagents](#)

[Q15661](#) [Related reagents](#)

Entrez Gene:

[64499](#) TPSB2 [Related reagents](#)

[7177](#) TPSAB1 [Related reagents](#)

Synonyms TPS1, TPS2, TPSB1

RRID AB_2206190

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.

Specificity **Mouse anti Human mast cell tryptase, clone AA1** recognizes human mast cell tryptase, both [alpha and beta](#) isoforms. Mouse anti Mast cell tryptase, clone AA1 is an excellent marker for mast cells, and does not bind to any other cell type in immunohistology ([Walls et al. 1990](#)).

Tryptases are the products of a number of [genes](#) and form the major neutral protease present in mast cells secreted in response to infection and injury. Mast cell tryptase has an important role in the pathology of inflammatory diseases, especially asthma through bronchoconstriction ([Zhang and Timmerman 1997](#)).

Histology Positive Control Tissue Tonsil

References

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intestine. Role of protease-activated receptor 2 and beta-arrestins. [J Biol Chem. 280: 31936-48.](#)

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14. Kato, Y. *et al.* (2016) Cutaneous mastocytosis with a mutation in the juxtamembrane domain of c-kit in a young laboratory beagle dog. [J Toxicol Pathol. 29 \(1\): 49-52.](#)

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16. Perbellini, O. *et al.* (2011) Primary role of multiparametric flow cytometry in the diagnostic work-up of indolent clonal mast cell disorders. [Cytometry B Clin Cytom. 80 \(6\): 362-8.](#)

17. Baba, A. *et al.* (2017) Less contribution of mast cells to the progression of renal fibrosis in Rat kidneys with chronic renal failure. [Nephrology \(Carlton\). 22 \(2\): 159-67.](#)

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for 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/MCA1438T>
10040

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

North & South Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: 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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