

Datasheet: MCA1438 BATCH NUMBER 158833

Description:	MOUSE ANTI HUMAN MAST CELL TRYPTASE				
Specificity:	MAST CELL TRYPTASE				
Format:	Purified				
Product Type:	Monoclonal Antibody				
Clone:	AA1				
Isotype:	lgG1				
Quantity:	0.2 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-</u>						
	rad-antibodies.com/proto	<u>cois</u> . Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	162	NO		Suggested Dilution		
	Immunohistology - Frozen	•		-			
	Immunohistology - Prozen	_					
	(1)	•			1/10,000		
	ELISA						
	Immunoprecipitation						
	Western Blotting	-					
	Immunofluorescence	-					
	Where this antibody has necessarily exclude its us the antibody for use in the (1) This product require paraffin sections.Sodiu	se in sucl eir own s s antiger	h procedu ystem usii n retrieva	res. It is recommende ng appropriate negativ l using heat treatmer	d that the user titrates re/positive controls. It prior to staining of		
Target Species	Human						
Species Cross Reactivity	Reacts with: Dog, Monkey, Cat, Rat 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.						
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:P20231Related reagentsQ15661Related reagents					
	Entrez Gene: 64499 TPSB2 Related reagents					
	7177 TPSAB1 <u>Related reagents</u>					
Synonyms	TPS1, TPS2, TPSB1					
RRID	AB_322318					
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 <u>alpha and beta</u> 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 (<u>Walls</u> <u>et al. 1990</u>).					
	Tryptases are the products of a number of <u>genes</u> 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 (<u>Zhang and Timmerman 1997</u>).					
Histology Positive Control Tissue	Tonsil					
References	 Walls, A.F. <i>et al.</i> (1990) Immunohistochemical identification of mast cells in formaldehyde-fixed tissue using monoclonal antibodies specific for tryptase. <u>J Pathol. 162</u> (<u>2): 119-26.</u> Ozaki, K. <i>et al.</i> (2002) Mast cell tumors of the gastrointestinal tract in 39 dogs. <u>Vet</u> <u>Pathol. 39 (5): 557-64.</u> 					

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	intestine. Role of protease-activated receptor 2 and beta-arrestins. <u>J Biol Chem. 280:</u>
	<u>31936-48.</u>
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	carcinoma co-secreting renin and cortisol. <u>Endocr Relat Cancer.15: 1025-34.</u>
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	for coronary plaque instability in a Chinese population. <u>Atherosclerosis. 215 (2): 494-9.</u>
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	divergent effects of interleukin-4 on immature mast cell lines versus mature human skin
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	angiogenesis in colorectal cancer. Mol Med Report. 1: 895-902.
	8. Liu, J. et al. (2009) Genetic deficiency and pharmacological stabilization of mast cells
	reduce diet-induced obesity and diabetes in mice. Nat Med. 15: 940-5.
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	conjunctival fibroblasts through protease-activated receptor-2. Invest Ophthalmol Vis Sci.
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	Histochem. 50: 133-40.
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	cells. J Vet Med Sci. 72 (2): 131-40.
	13. Kazama, I. <i>et al.</i> (2015) Mast cell involvement in the progression of peritoneal fibrosis
	in rats with chronic renal failure. <u>Nephrology (Carlton)</u> . 20 (9): 609-16.
	14. Kato, Y. <i>et al.</i> (2016) Cutaneous mastocytosis with a mutation in the juxtamembrane
	domain of c-kit in a young laboratory beagle dog. <u>J Toxicol Pathol. 29 (1): 49-52.</u>
	15. Luo, J. <i>et al.</i> (2016) An indispensable role of CPT-1a to survive cancer cells during
	energy stress through rewiring cancer metabolism. <u>Tumour Biol. Oct 13 [Epub ahead of</u>
	16. Perbellini, O. <i>et al.</i> (2011) Primary role of multiparametric flow cytometry in the
	diagnostic work-up of indolent clonal mast cell disorders. Cytometry B Clin Cytom. 80 (6):
	<u>362-8.</u>
	17. Baba, A. <i>et al.</i> (2017) Less contribution of mast cells to the progression of renal
	fibrosis in Rat kidneys with chronic renal failure. <u>Nephrology (Carlton). 22 (2): 159-67.</u>
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	Material Safety Datasheet documentation #10040 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA1438

		10040							
Regulato	ry	For research purposes only							
Relate	d Product	S							
Recomn	nended Sec	ondary Ai	ntibodi	es					
Rabbit Aı	nti Mouse IgG	6 (STAR12	.)	<u>RPE</u>					
Goat Ant	i Mouse IgG I	gA IgM (ST	AR87)	HRF	2				
Goat Ant	i Mouse IgG (STAR76)		RPE					
Goat Ant	i Mouse IgG (STAR70)		<u>FIT(</u>	<u>2</u>				
Rabbit Aı	nti Mouse IgG	6 (STAR13	.)	HRF	-				
Goat Ant	i Mouse IgG (Fc) (STAR1	120)	<u>FIT(</u>	<u>C, HRP</u>				
Rabbit A	nti Mouse IgG	6 (STAR9)		<u>FIT(</u>	2				
Goat Ant	i Mouse IgG (STAR77)		HRF	2				
Goat Ant	i Mouse IgG (H/L) (STAR)	<u>Alk.</u>	Phos., Dy	Light®488	<u>, DyL</u>	<u>ight®550,</u>	
				DyL	<u>ight®650,</u>	DyLight®6	<u>580, E</u>	DyLight®80	<u>)0</u> ,
				<u>FIT(</u>	<u>C, HRP</u>				
lorth & South merica	Tel: +1 800 265 73 Fax: +1 919 878 3	3751	Worldwid	le	Tel: +44 (0)18 Fax: +44 (0)18	365 852 739		Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50
	Email: antibody_sa	ales_us@bio-rad	d.com		Email: antiboo	ly_sales_uk@t	bio-rad.	com	Email: antibody_sales_de@bio-rad.com
To find a b	atch/lot specific	c datasheet f	or this p	oduc	t, please us 'M383050		e sea	rch tool at: I	bio-rad-antibodies.com/datasheets
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