Datasheet: MCA5751 BATCH NUMBER 169139

Description:	MOUSE ANTI HUMAN EOSINOPHIL MAJOR BASIC PROTEIN		
Specificity:	EOSINOPHIL MAJOR BASIC PROTEIN		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	BMK-13		
Isotype:	lgG1		
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
	Immunohistology - Frozen (1)	•			1/20 - 1/50
	Immunohistology - Paraffin (2)	-			1/20 - 1/50
	 (2) Where this product 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 product for use in their own system using appropriate negative/positive controls. (1) It is recommended that sections are fixed in a 1:1 mixture of acetone and methanol and air-dried for 1 hour. Good results may be achieved via staining with the <u>APAAP</u> method. (2) This product requires enzymatic pre-treatment of paraffin sections prior to staining. Pepsin is recommended for this purpose. NB. Heat-mediated antigen retrieval methods should not be used. 				
Target Species	Human				
Species Cross Reactivity	Reacts with: Rat Reacts weakly with:Guinea Pig 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	Antibody purified from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1mg/ml
External Database Links	UniProt: <u>P13727</u> Related reagents Entrez Gene:
	5553 PRG2 Related reagents
Synonyms	MBP
RRID	AB_10671914
Specificity	Mouse anti Human Eosinophil Major Basic Protein antibody, clone BMK-13 recongises the Eosinophil Major Basic Protein (EMBP), a 117 amino acid protein, corresponding to residues 106-222 of Bone marrow proteoglycan (precursor). Mouse anti Human Eosinophil Major Basic Protein antibody, clone BMK-13 stains both resting and activated eosinophils of bronchial and skin sections of allergic and normal sites and may be considered a Pan eosinophil marker. Mouse anti Human Eosinophil Major Basic Protein antibody, clone BMK-13 cross reacts weakly with basophils which also contain low levels of EMBP. No cross reactivity with other human cells or proteins has been noted.
References	

cells recognize and engulf apoptotic eosinophils. Blood. 94 (8): 2827-35.

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Al-Rabia, M.W. *et al.* (2004) Membrane receptor-mediated apoptosis and caspase activation in the differentiated EoL-1 eosinophilic cell line. <u>J Leukoc Biol. 75 (6): 1045-55.</u>
 Tulic, M.K. *et al.* (2009) Thymic indoleamine 2,3-dioxygenase-positive eosinophils in young children: potential role in maturation of the naive immune system. <u>Am J Pathol. 175 (5): 2043-52.</u>

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16. Vanheel, H. *et al.* (2014) Impaired duodenal mucosal integrity and low-grade inflammation in functional dyspepsia. <u>Gut. 63 (2): 262-71.</u>

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18. Wiersma, L.C. *et al.* (2015) Pathogenesis of infection with 2009 pandemic H1N1 influenza virus in isogenic guinea pigs after intranasal or intratracheal inoculation. <u>Am J Pathol. 185 (3): 643-50.</u>

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22. Whelan, K.A. *et al.* (2020) Persistent Basal Cell Hyperplasia Is Associated With Clinical and Endoscopic Findings in Patients With Histologically Inactive Eosinophilic Esophagitis. <u>Clin Gastroenterol Hepatol. 18 (7): 1475-1482.e1.</u>

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24. Duan, S. *et al.* (2021) Eosinophil-associated microinflammation in the gastroduodenal tract contributes to gastric hypersensitivity in a rat model of early-life adversity. <u>Am J</u> <u>Physiol Gastrointest Liver Physiol. 320 (2): G206-G216.</u>

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26. Chikkamenahalli, L.L. *et al.* (2024) Single cell atlas of human gastric muscle immune cells and macrophage-driven changes in idiopathic gastroparesis. <u>iScience. 27 (3):</u>

	<u>108991.</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 a frost-free freezers is not recommended.	antibody. Storage in		
Guarantee	Guaranteed until date of expiry. Please see product label.			
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <u>https://www.bio-rad-antibodies.com/SDS/MCA5751</u> 10041			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South	Tel: +1 800 265 7376	Worldwide	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-r	ad.com	Email: antibody_sales_uk@bio-	rad.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 'M410360:221028'

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