

# Datasheet: MCA1806T BATCH NUMBER 153551

Description:	MOUSE ANTI HUMAN CD10
Specificity:	CD10
Other names:	CALLA
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	56C6
Isotype:	lgG1
Quantity:	0.1 ml

## **Product Details**

	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							
		•						
	Ŭ	information. For general protocol recommendations, please visit <u>www.bio-</u>						
	rad-antibodies.com/proto							
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry			•				
	Immunohistology - Frozen	•			1/80			
	Immunohistology - Paraffin (1)	-			1/80			
	a guide only. It is recomm system using appropriate (1) <b>This product require</b>	e negative	e/positive	controls.				
	paraffin sections.Sodiu	im citrate	e buffer p	-				
Target Species	paraffin sections.Sodiu Human	ım citrate	e buffer p	-				
Target Species Species Cross	•		-	-				
	Human	s monkey and worki testing w	, ng conditi ithin our la	H 6.0 is recommende ons may vary betweer aboratories, peer-revie	ed for this purpose. a species. Cross wed publications or			
Species Cross	Human Reacts with: Cynomolgus <b>N.B.</b> Antibody reactivity a reactivity is derived from personal communication	s monkey and worki testing w s from the	ng conditi ithin our la e originato	H 6.0 is recommende ons may vary betweer aboratories, peer-revie	ed for this purpose. a species. Cross wed publications or			

#### Stabilisers

Immunogen	Recombinant human CD10.
External Database Links	UniProt:         P08473       Related reagents         Entrez Gene:         4311       MME         Related reagents
Synonyms	EPN
RRID	AB_323793
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse p3-NS1-Ag4-1 myeloma cell line
Specificity	<b>Mouse anti Human CD10 antibody, clone 56C6</b> recognizes human Neprilysin, also known as CD10, Atriopeptidase, Common acute lymphocytic leukemia antigen (CALLA), Enkephalinase, Neutral endopeptidase 24.11, Neutral endopeptidase or Skin fibroblast elastase. CD10 is a 749 amino acid, ~100 kDa single pass type II transmembrane glycoprotein, expressed on a variety of cell types including immature and germinal centre B cells, lymphoblastic leukaemia cells and also on the brush border of kidney epithelial cells.
	Mutations in the MME gene (encoding CD10) are involved in the development of Charcot- Marie-Tooth disease 2T ( <u>CMT2T</u> ), a disorder of the peripheral nervous system, demonstrating progerssive peripheral muscle weakness and atrophy ( <u>Higuchi <i>et al.</i> 2016</u> ). Mutations of the MME gene can also lead to Spinocerebellar ataxia 43 ( <u>SCA43</u> ) characterized by a progressive loss of gait coordination along with hand, speech and eye coordination. Degeneration of the cerebellum, with variable involvement of the brain stem and spinal cord are apparent in this slow progressive autosomal dominant form of the disease ( <u>Depondt <i>et al.</i> 2016</u> ).
Histology Positive Control Tissue	Tonsil, Intestine or kidney
References	<ol> <li>Angelin-Duclos, C. <i>et al.</i> (2000) Commitment of B lymphocytes to a plasma cell fate is associated with Blimp-1 expression <i>in vivo</i>. J Immunol. 165 (10): 5462-71.</li> <li>Carvounis, E.E. <i>et al.</i> (2003) Undifferentiated carcinoma with osteoclast-like giant cells of the pancreas. Int J Gastrointest Cancer. 33: 103-6.</li> <li>Scholzen, T.E. <i>et al.</i> (2007) Terminating the stress: peripheral peptidolysis of proopiomelanocortin-derived regulatory hormones by the dermal microvascular endothelial cell extracellular peptidases neprilysin and angiotensin-converting enzyme. Endocrinology. 148: 2793-805.</li> <li>de Moraes Schenka, N.G. <i>et al.</i> (2007) Use of p63 and CD10 in the differential diagnosis of papillary neoplasms of the breast. Breast J. 14: 68-75.</li> <li>Matsumoto, T. <i>et al.</i> (2005) Increase of bone marrow-derived secretory lineage</li> </ol>

	epithelial cells during regeneration in the human intestine. <u>Gastroenterology. 128:</u> 1851-67.	
	<ol> <li>Rasini, V. <i>et al.</i> (2013) Mesenchymal stromal/stem cells markers in the human bo marrow. <u>Cytotherapy. 15 (3): 292-306.</u></li> </ol>	ne
	7. Nishimoto-Kakiuchi, A. et al. (2016) Characteristics of histologically confirmed	
	endometriosis in cynomolgus monkeys. <u>Hum Reprod. 31 (10): 2352-9.</u>	
	8. Tasaki K et al. (2007) CD5-positive mucosa-associated lymphoid tissue (MALT)	
	lymphoma of ocular adnexal origin: usefulness of fluorescence in situ hybridization fe	
	distinction between mantle cell lymphoma and MALT lymphoma. Pathol Int. 57 (2): 1	<u>01-7.</u>
	9. Mizowaki, T. et al. (2015) STAT3 activation is associated with cerebrospinal fluid	
	interleukin-10 (IL-10) in primary central nervous system diffuse large B cell lymphom	ia. <u>J</u>
	Neurooncol. 124 (2): 165-74.	
	10. Ince, T.A. <i>et al.</i> (2007) Transformation of different human breast epithelial cell type and the distinct turner phase three a Company Call. 42 (2): 400-70	oes
	leads to distinct tumor phenotypes. <u>Cancer Cell. 12 (2): 160-70.</u>	
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 that	ving
	as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.	
Guarantee	Guaranteed until date of expiry. Please see product label.	
Health And Safety	Material Safety Datasheet documentation #10055 available at:	
Information	https://www.bio-rad-antibodies.com/SDS/MCA1806T	
	10055	
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>
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
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,
	DyLight®650, DyLight®680, DyLight®800,
	<u>FITC</u> , <u>HRP</u>

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets							
'M361595:200226'							

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