

Datasheet: MCA1270A700T

BATCH NUMBER 151667

Description:	MOUSE ANTI HUMAN CD13:Alexa Fluor® 700		
Specificity:	CD13		
Other names:	AMINOPEPTIDASE N		
Format:	ALEXA FLUOR® 700		
Product Type:	Monoclonal Antibody		
Clone:	WM15		
Isotype:	lgG1		
Quantity:	25 TESTS/0.25ml		

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	-			Neat - 1/5

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						
Species Cross	Reacts with: Rhesu	us Monkey					
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Co						
	<u> </u>	<u> </u>	aboratories, peer-reviewed pub				
	·	•	ors. Please refer to references				
	further information.						
Product Form	Purified IgG conjugated to Alexa Fluor® 700 - liquid						
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				
	Alexa Fluor®700	702	723				
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture						
Preparation							

Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin			
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml			
Immunogen	Human AML cells.			
External Database Links	UniProt: P15144 Related reagents Entrez Gene: 290 ANPEP Related reagents			
Synonyms	APN, CD13, PEPN			
RRID	AB_1100672			
Fusion Partners	Spleen cells from immunised BALB/c mice where fused with cells of the mouse NS1 myeloma cell line.			
Specificity	Mouse anti Human CD13 antibody, clone WM15 recognizes human CD13 also known as aminopeptidase N. CD13 is a single pass type II glycosylated integral membrane protein with a predicted molecular mass of ~110 kDa and an apparent molecular mass of ~150 kDa expressed by granulocytes, monocytes, fibroblasts, endothelial cells and by myeloid leukaemia cells (Bradstock et al. 1985). CD13 acts as a major cell surface receptor for group 1 coronoviruses (Breslin et al. 2003) which bind to a critical sequence encompassing amino acid residies 288-295 (Kolb et al. 1997).			
	CD13 functions as an <u>aminopeptidase</u> enzyme, a metalloprotease present as both a membrane bound form and also a soluble aminopeptidase N.			
	Mouse anti Human CD13, clone WM15 inhibits infection of cells by human coronavirus (<u>Lachance et al. 1998</u>) but not hepatitis C virus (<u>Koutsoudakis et al. 2006</u>) and inhibits aminopeptidase N activity of the CD13 molecule (<u>Asmun et al. 1992</u>).			
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood			
References	 Bradstock, K.F. <i>et al.</i> (1985) Human myeloid differentiation antigens identified by monoclonal antibodies: expression on leukemic cells. <u>Pathology. 17 (3): 392-9.</u> Bradstock, K.F. <i>et al.</i> (1985) Myeloid progenitor surface antigen identified by monoclonal antibody. <u>Br J Haematol. 61 (1): 11-20.</u> Favaloro, E.J. <i>et al.</i> (1988) Further characterization of human myeloid antigens (gp160,95; gp150; gp67): investigation of epitopic heterogeneity and non-haemopoietic distribution using panels of monoclonal antibodies belonging to CD-11b, CD-13 and 			

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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1270A700T

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 700 (MCA928A700)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M365065:200529'

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