

Datasheet: MCA6068F

BATCH NUMBER 168139

Description:	MOUSE ANTI HUMAN CD73:FITC
Specificity:	CD73
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AD2
Isotype:	IgG1
Quantity:	100 TESTS/0.5ml

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	▪			1/2 - 1/10

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.

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	0.2% Bovine Serum Albumin		
Immunogen	Pre-B leukemia cell line		
External Database Links	UniProt:		

Specificity	Mouse anti Human CD73, clone AD2 recognizes CD73 also known as ecto-5'-nucleotidase. CD73 is a enzyme that catalyzes the coversion of AMP to adenosine. CD73 expression has been detected on subsets of T cells and B cells, follicular dendritic cells, endothelial cells and mesenchymal stem cells. CD73 has been implicated in T cell activation and lymphocyte adhesion.
Flow Cytometry	Use 10 µl of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. Krüger, K.H. <i>et al.</i> (1991) Expression of ecto-5'-nucleotidase (CD73) in normal mammary gland and in breast carcinoma. Br J Cancer. 63 (1): 114-8. 2. Yoo, H.S. <i>et al.</i> (2013) Mesenchymal Stem Cell Lines Isolated by Different Isolation Methods Show Variations in the Regulation of Graft-versus-host Disease. Immune Netw. 13 (4): 133-40. 3. Terp, M.G. <i>et al.</i> (2013) Anti-human CD73 monoclonal antibody inhibits metastasis formation in human breast cancer by inducing clustering and internalization of CD73 expressed on the surface of cancer cells. J Immunol. 191 (8): 4165-73. 4. Chaturvedi, C.P. <i>et al.</i> (2018) Altered Expression of Hematopoiesis Regulatory Molecules in Lipopolysaccharide-Induced Bone Marrow Mesenchymal Stem Cells of Patients with Aplastic Anemia. Stem Cells Int. 2018: 6901761. 5. GarikipatiV, N.S. <i>et al.</i> (2018) Isolation and characterization of mesenchymal stem cells from human fetus heart. PLoS One. 13 (2): e0192244. 6. Di Paola, A. <i>et al.</i> (2021) Eltrombopag in paediatric immune thrombocytopenia: Iron metabolism modulation in mesenchymal stromal cells. Br J Haematol. Dec 28 [Epub ahead of print]. 7. Tiraihi, T. <i>et al.</i> (2023) A Sequential Culturing System for Generating Epithelial-Like Stem Cells from Human Mesenchymal Stem Cells Derived from Adipose Tissue Cell Tissue Biol. 17 (6): 639-52. 8. Bami, M. <i>et al.</i> (2020) Superiority of synovial membrane mesenchymal stem cells in chondrogenesis, osteogenesis, myogenesis and tenogenesis in a rabbit model. Injury. 51 (12): 2855-65.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6068F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: 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

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

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