

Datasheet: MCA87P750T

Specificity:CD45Other names:LCAFormat:RPE-ALEXA FLUOR® 750Product Type:Monoclonal AntibodyClone:F10-89-4Isotype:IgG2aQuantity:25 TESTS	Description:	MOUSE ANTI HUMAN CD45:RPE-Alexa Fluor® 750
Format: RPE-ALEXA FLUOR® 750 Product Type: Monoclonal Antibody Clone: F10-89-4 Isotype: IgG2a	Specificity:	CD45
Product Type: Monoclonal Antibody Clone: F10-89-4 Isotype: IgG2a	Other names:	LCA
Clone: F10-89-4 Isotype: IgG2a	Format:	RPE-ALEXA FLUOR® 750
Isotype: IgG2a	Product Type:	Monoclonal Antibody
<u> </u>	Clone:	F10-89-4
Quantity: 25 TESTS	Isotype:	lgG2a
	Quantity:	25 TESTS

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

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 Species Cross Reactivity Product Form Reconstitution Max Ex/Em	,	ty and working condit	ions may vary between			
Product Form Reconstitution	N.B. Antibody reactivi	ty and working condit	ions may vary between			
Reconstitution	Purified IaC conjugate		., .,	species.		
	i uniled igo conjugate	ed to R. Phycoerythrir	n (RPE) - Alexa Fluor®	750 - lyophilized		
Max Ex/Em	Reconstitute in 0.25 n	nl disilled water				
	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	RPE-Alexa Fluor®750 488nm laser	496	779			
	RPE-Alexa Fluor®750 561nm laser	546	779			
Preparation	Purified IgG prepared	by affinity chromatog	raphy on Protein G fror	m tissue culture supernatant		
Buffer Solution	Phosphate buffered sa	aline				
Preservative	0.09% Sodium Azide					
Stabilisers	1% Bovine Serum	1% Bovine Serum Albumin				
	5% Sucrose					

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Human T lymphocytes.

External Database Links

UniProt:

P08575 Related reagents

Entrez Gene:

5788 PTPRC Related reagents

Synonyms

CD45

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.

Specificity

Mouse anti Human CD45 antibody, clone F10-89-4 recognizes the human CD45 cell surface antigen, also known as the leucocyte common antigen (LCA). CD45 is a complex molecule existing in a number of isoforms.

Antibodies recognising a common epitope on all of these isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.

Mouse anti Human CD45 antibody, clone F10-89-4 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes, having a higher level of expression on lymphocytes than on granulocytes.

Mouse anti Human CD45 antibody, clone F10-89-4 is routinely tested in flow cytometry on human peripheral blood leucocytes

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood

References

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- 14. Bianchessi, M. *et al.* (2016) Effect of Fibroblast Growth Factor 2 on Equine Synovial Fluid Chondroprogenitor Expansion and Chondrogenesis. Stem Cells Int. 2016: 9364974.
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- 16. Ruiz, C. *et al.* (2015) Limited genomic heterogeneity of circulating melanoma cells in advanced stage patients. Phys Biol. 12 (1): 016008.
- 17. Branly, T. *et al.* (2017) Characterization and use of Equine Bone Marrow Mesenchymal Stem Cells in Equine Cartilage Engineering. Study of their Hyaline Cartilage Forming Potential when Cultured under Hypoxia within a Biomaterial in the Presence of BMP-2 and TGF-β1. <u>Stem Cell</u> Rev. Jun 09 [Epub ahead of print].
- 18. GarikipatiV, N.S. *et al.* (2018) Isolation and characterization of mesenchymal stem cells from human fetus heart. PLoS One. 13 (2): e0192244.

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

12 months from date of reconstitution.

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf

Regulatory

For research purposes only

Related Products

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 **Europe** Tel: +49 (0) 89 8090 95 21

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