

Datasheet: MCA1114APC

Description:	MOUSE ANTI HUMAN CD45RB:APC
Specificity:	CD45RB
Format:	APC
Product Type:	Monoclonal Antibody
Clone:	MEM-55
Isotype:	IgG1
Quantity:	100 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 - 1/10

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 Reactivity	Reacts with: Rhesus Monkey, Monkey Does not react with: Horse, Goat, Llama N.B. Antibody reactivity and working conditions may vary between species.		
Product Form	Purified IgG conjugated to Allophycocyanin (APC) - lyophilised		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	APC	650	661
Preparation	Purified IgG prepared by affinity chromatography on Protein G.		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

**External Database
Links**

UniProt:

[P08575](#) [Related reagents](#)

Entrez Gene:

[5788](#) PTPRC [Related reagents](#)

Synonyms

CD45

Specificity

Mouse anti Human CD45RB antibody, clone MEM-55 recognizes the isoform of the leucocyte common antigen encoded by exon B and stains B cells, most T cells and monocytes.

Mouse anti Human CD45RB antibody, clone MEM-55 immunoprecipitates bands of 190, 200 and 205 kDa.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Davis, W.C. *et al.* (2007) Use of flow cytometry to identify monoclonal antibodies that recognize conserved epitopes on orthologous leukocyte differentiation antigens in goats, llamas, and rabbits. [Vet Immunol Immunopathol. 119: 123-30.](#)
2. Ibrahim, S. *et al.* (2007) Screening of anti-human leukocyte monoclonal antibodies for reactivity with equine leukocytes. [Vet Immunol Immunopathol. 119: 63-80.](#)
3. Windhagen, A. *et al.* (2007) Altered CD45 isoform expression in C77G carriers influences cytokine responsiveness and adhesion properties of T cells. [Clin Exp Immunol. 150: 509-17.](#)
4. Blaylock, M.G. *et al.* (2003) Eosinophils from patients with asthma express higher levels of the pan-leucocyte receptor CD45 and the isoform CD45RO. [Clin Exp Allergy. 33: 936-41.](#)
5. Khan, A.A. *et al.* (2015) Therapeutic Immunization with a Mixture of Herpes Simplex Virus Type 1 Glycoprotein D Derived "Asymptomatic" Human CD8+ T-cell Epitopes Decreases Spontaneous Ocular Shedding in Latently Infected HLA Transgenic Rabbits: Association with Low Frequency of Local PD-1+TIM-3+CD8+ Exhausted T Cells. [J Virol. pii: JVI.00788-15.](#)
6. Ponchel, F. *et al.* (2014) An immunological biomarker to predict MTX response in early RA. [Ann Rheum Dis. 73 \(11\): 2047-53.](#)
7. Hunt, L. *et al.* (2016) T cell subsets: an immunological biomarker to predict progression to clinical arthritis in ACPA-positive individuals. [Ann Rheum Dis. 75 \(10\): 1884-9.](#)

Storage

Prior to reconstitution store at +4°C.
After 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

18 months from date of reconstitution.

**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 Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:APC \(MCA928APC\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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