

Datasheet: MCA554PE

Description:	MOUSE ANTI HUMAN CD35:RPE
Specificity:	CD35
Other names:	CR1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	E11
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

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: Cynomolgus monkey, Rhesus Monkey, Baboon N.B. Antibody reactivity and working conditions may vary between species.								
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized								
Reconstitution	Reconstitute with 1ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.								
Max Ex/Em	<table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>RPE 488nm laser</td><td>496</td><td>578</td></tr></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
RPE 488nm laser	496	578							
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant								
Buffer Solution	Phosphate buffered saline								
Preservative	0.09% Sodium Azide								
Stabilisers	1% Bovine Serum Albumin 5% Sucrose								

Immunogen	Human acute monocytic leukaemia cells.
External Database Links	UniProt: P17927 Related reagents Entrez Gene: 1378 CR1 Related reagents
Synonyms	C3BR
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Human CD35 antibody, clone E11 recognizes complement receptor type 1, also known as CD35 or the C3b/C4b receptor. CD35 a single chain, type I single pass transmembrane glycoprotein which exists in four allotypic forms (A,B,C,D) of ~190 kDa, ~220 kDa, ~160 kDa and ~250 kDa respectively (Khera et al. 2009). CD35 is expressed by granulocytes, monocytes, B cells and some T cells. Functionally, CD35 acts as a receptor for the C3b component of complement. Mouse anti Human CD35 antibody, clone E11 is suitable for use in Western Blotting (Birmingham et al. 1996)
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood
References	- Hogg, N. et al. (1984) Identification of an anti-monocyte monoclonal antibody that is specific for membrane complement receptor type one (CR1). Eur J Immunol. 14 (3): 236-43. - Yoshino, N. et al. (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (<i>Macaca fascicularis</i>) by using anti-human cross-reactive antibodies. Exp Anim. 49 (2): 97-110. - Birmingham, D.J. et al. (1996) The baboon erythrocyte complement receptor is a glycoposphatidylinositol-linked protein encoded by a homologue of the human CR1-like genetic element. J Immunol. 157 (6): 2586-92. - Sopper, S. et al. (1997) Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. Cytometry. 29 (4): 351-62. - Weissgerber P et al. (2003) Investigation of mechanisms involved in phagocytosis of <i>Legionella pneumophila</i> by human cells. FEMS Microbiol Lett. 219 (2): 173-9. - Schmidt, C.Q. et al. (2016) Selectivity of C3-opsonin targeted complement inhibitors: A distinct advantage in the protection of erythrocytes from paroxysmal nocturnal hemoglobinuria patients. Immunobiology. 221 (4): 503-11.
Storage	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.
Health And Safety	Material Safety Datasheet documentation #10075 available at:

Information 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:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

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

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

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