

Datasheet: MCA554F

BATCH NUMBER 164023

Description:	MOUSE ANTI HUMAN CD35:FITC
Specificity:	CD35
Other names:	CR1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	E11
Isotype:	IgG1
Quantity:	0.1 mg

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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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 on Protein A from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.1 mg/ml

Immunogen Human acute monocytic leukaemia cells.

External Database Links

UniProt:
[P17927](#) [Related reagents](#)

Entrez Gene:
[1378](#) CR1 [Related reagents](#)

Synonyms C3BR

RRID AB_321212

Fusion Partners Spleen cells from immunized 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 in 100ul.

References

1. 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.](#)
2. 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.](#)
3. Weissgerber P *et al.* (2003) Investigation of mechanisms involved in phagocytosis of *Legionella pneumophila* by human cells. [FEMS Microbiol Lett. 219 \(2\): 173-9.](#)
4. 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.](#)

5. Noda, G.S. *et al.* (2020) Specificities and isotypes of erythrocytes autoantibodies in patients with warm autoimmune hemolytic anemia [Rev Cubana Hematol Inmunol Hemoter 36\(4\): e1283.](#)

6. Klaas, M. *et al.* (2023) Sialoadhesin (CD169/Siglec-1) is an extended molecule that escapes inhibitory cis-interactions and synergizes with other macrophage receptors to promote phagocytosis. [Glycoconj J. 40 \(2\): 213-23.](#)

7. Wagstaffe, H.R. *et al.* (2023) The Development of Immunological Assays to Evaluate the Level and Function of Antibodies Induced by *Klebsiella pneumoniae* O-Antigen Vaccines. [mSphere. : e0068022.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA554F10041>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

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

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

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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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