

Datasheet: MCA554

Description:	MOUSE ANTI HUMAN CD35
Specificity:	CD35
Other names:	CR1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	E11
Isotype:	IgG1
Quantity:	0.2 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	▪			1/50 - 1/200
Immunohistology - Frozen	▪			1ug/ml - 10ug/ml
Immunohistology - Paraffin (1)	▪			1ug/ml - 10ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

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 - liquid

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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Human acute monocytic leukaemia cells.
External Database Links	<p>UniProt: P17927 Related reagents</p> <p>Entrez Gene: 1378 CR1 Related reagents</p>
Synonyms	C3BR
RRID	AB_321673
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>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).</p> <p>CD35 is expressed by granulocytes, monocytes, B cells and some T cells. Functionally, CD35 acts as a receptor for the C3b component of complement.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood.
Histology Positive Control Tissue	Human Tonsil
References	<ol style="list-style-type: none"> Birmingham, D.J. <i>et al.</i> (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. <i>et al.</i> (1997) Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. Cytometry. 29 (4): 351-62. Weissgerber P <i>et al.</i> (2003) Investigation of mechanisms involved in phagocytosis of <i>Legionella pneumophila</i> 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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA554>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#), [DyLight@650](#), [DyLight@680](#), [DyLight@800](#), [FITC](#), [HRP](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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

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

'M429762:240425'

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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