

CD35 Monoclonal Antibody (E11)

Catalog Number MA5-13122

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * 1 µg/test
Clone	E11	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Immunogen	Intact human monocytes	Immunocytochemistry (ICC/IF)	1:10-1:100
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (IHC)	See 1 publications below
Concentration	0.8 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Protein G		
Storage buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	0.09% sodium azide		
Storage Conditions	4° C		

Product specific information

MA5-13122 targets CD35 in FACS, ICC/IF, and IHC (P) applications and shows reactivity with Human and Non-human primate samples. The MA5-13122 immunogen is intact human monocytes.

Background/Target Information

CD35 (CR1, Complement Receptor 1) is a cell membrane-bound, monomeric glycoprotein and its primary function is to serve as the cellular receptor for C3b and C4b, the most important components of the complement system leading to clearance of foreign macromolecules. CD35 protein mediates cellular binding to particles and immune complexes that have activated complement. The CD35 complex is four different allotypes (C,A,B,D) C is 160 kDa; A is 190 kDa; B is 220 kDa and D is 250 kDa. CD35 is involved in the processing of immune complexes, promoting of binding and phagocytosis of C3b complexes and inhibition of complement activation. CD35 is on neutrophils, eosinophils, monocytes, B-cells, some NK-cells, erythrocytes, myeloid leukemias, follicular dendritic reticulum cells and is negative on basophils. Decreases in expression of CD35 protein and/or mutations in its gene have been associated with gallbladder carcinomas, mesangiocapillary glomerulonephritis, systemic lupus erythematosus and sarcoidosis. Mutations in the CD35 gene have also been associated with a reduction in Plasmodium falciparum rosetting, conferring protection against severe malaria. Alternate allele-specific splice variants encoding different isoforms of CD35 have been characterized. An additional secreted form of CD35 have also been described but has not been fully characterized.

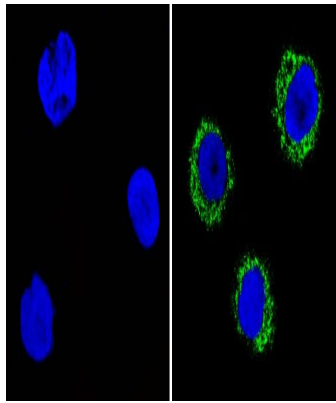
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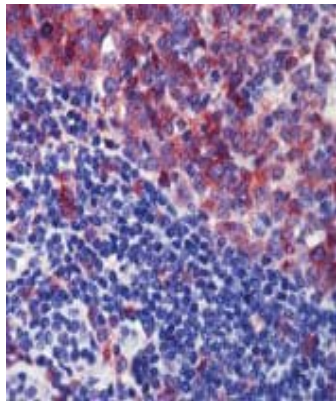
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Product Images For CD35 Monoclonal Antibody (E11)



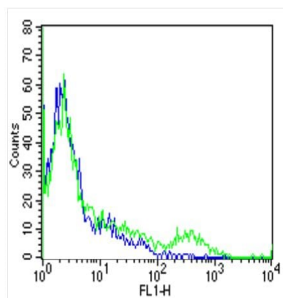
CD35 Antibody (MA5-13122) in ICC/IF

Immunofluorescent analysis of CD35 (green) showing staining in the cytoplasm and membrane of THP-1 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a CD35 monoclonal antibody (Product # MA5-13122) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



CD35 Antibody (MA5-13122) in IHC (P)

Formalin-fixed, paraffin-embedded human tonsil stained with CD35 antibody using peroxidase-conjugate and AEC chromogen. Note cell membrane staining of follicular dendritic cells, B cells and granulocytes.



CD35 Antibody (MA5-13122) in Flow

Flow cytometry analysis of CD35 in PBMC cells (green) compared to an isotype control (blue). Human blood was collected, combined with a hydrophilic polysaccharide, centrifuged, transferred to a conical tube and washed with PBS. 50 μ L of cell solution was added to each tube at a dilution of 2×10^7 cells/mL, followed by the addition of 50 μ L of isotype control and primary antibody (Product # MA5-13122) at a dilution of 1 μ g/test. Cells were incubated for 30 min at 4°C and washed with a cell buffer, followed by incubation with a DyLight 488-conjugated secondary antibody for 30 min at 4°C in the dark. FACS analysis was performed using 400 μ L of cell buffer.

Cell: peripheral blood lymphocytes

Concentration: 1 μ g/test (100 μ l)

Theory location: Membrane

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PubMed References For CD35 Monoclonal Antibody (E11)

1 Immunohistochemistry References

Species / Dilution	Summary
Human / 1:100	<p>MA5-13122 was used in immunohistochemistry to study the effect of B-cell depletion on co-receptor switching in rhesus macaques infected with R5 simian-human immunodeficiency virus.</p> <p>Journal of virology (2011; 85: 3086)</p> <p>"Effect of B-cell depletion on coreceptor switching in R5 simian-human immunodeficiency virus infection of rhesus macaques."</p> <p>Author(s):Tasca S,Zhuang K,Gettie A,Knight H,Blanchard J,Westmoreland S,Cheng-Mayer C</p> <p>PubMed Article URL:http://dx.doi.org/10.1128/JVI.02150-10</p>

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