

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD35 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant rat CSMD1, recombinant human (rh) CSMD2, rhCSMD3, rhHABP1/C1QBP, or rhComplement Factor H is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 594708
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD35 Gln42-Asp1971 (His1208Arg) Accession # CAA68755
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human peripheral blood lymphocytes (PBMC)

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD35, also known as complement receptor 1 (CR1), is a 220-300 kDa N-glycosylated member of the RCA (regulators of complement activation) family of proteins. CD35 binds and internalizes particles and immune complexes that are opsonized with MBL or complement components C3b, C3i, C4b, or C1q. CD35 additionally protects the cell from complement-mediated lysis by serving as a cofactor for Factor I and inhibiting the C3 and C5 convertases. The extracellular domain (ECD) of human CD35 contains 30 tandem SCR/SUSHI repeats. A soluble form of the CD35 ECD circulates in the serum. A mouse ortholog of human CD35 has not been described, although alternate splicing of mouse CD21/CR2 generates a protein with homology to some SCR repeats of human CD35. Cell surface CD35 is widely expressed on hematopoietic cells.

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