

AM50104PU-T**Monoclonal Antibody to CD35 / C3BR - Purified**

Alternate names:	C3b/C4b receptor, CR1, Complement receptor type 1
Quantity:	20 µg
Concentration:	0.2 mg/ml
Uniprot ID:	P17927
NCBI:	9606
GeneID:	1378
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	SPM554
Immunogen:	Intact human monocytes. Genename: CR1
Format:	State: Liquid purified IgG fraction from Bioreactor Concentrate Purification: Protein A/G Chromatography Buffer System: 10mM PBS Preservatives: 0.05% Sodium Azide Stabilizers: 0.05% BSA
Applications:	ELISA: Use Antibody without BSA for Coating. Flow Cytometry: 0.5-1 µg/10 ⁶ cells. Immunofluorescence: 1-2 µg/ml. Western Blot: 0.5-1 µg/ml. Immunoprecipitation: 1-2 µg/500 µg protein lysate. Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Positive Control: Follicular dendritic cells (FDC) in tonsil. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	210-220kDa

- Specificity:** Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35.
This Monoclonal Antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity.
This Monoclonal Antibody is highly specific to CR1 and shows no cross-reaction with CR2. The primary function of CR1 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. The Knops blood group system is a system of antigens located on this protein. Follicular dendritic cells (FDC) are restricted to the B-cell regions of secondary lymphoid follicles. They are CD21+/CD35+/CD1a-. It labels follicular dendritic cells and follicular dendritic cell sarcoma.
Cellular Localization: Cell surface.
Species: Human, Baboon, Cynomolgus Monkey, Rhesus Monkey.
Other species not tested.
- Storage:** Store undiluted at 2-8°C.
Shelf life: one year from despatch.
- General Readings:** 1. Hogg N, Ross GD, Jones DB, Slusarenko M, Walport MJ, Lachmann PJ. Identification of an anti-monocyte monoclonal antibody that is specific for membrane complement receptor type one (CR1). Eur J Immunol. 1984 Mar;14(3):236-43. PubMed PMID: 6368248.
- Pictures:** Formalin-Fixed, Paraffin-Embedded Human tonsil stained with CD35/C3BR Antibody Cat.-No AM50104PU (Clone SPM554).

