

SM1097P**Monoclonal Antibody to CD35 / C3BR - Purified**

Alternate names:	C3b/C4b receptor, CR1, Complement receptor type 1
Quantity:	0.2 mg
Concentration:	1.0 mg/ml
Background:	CD35 is a single chain cell surface glycoprotein which exists in four allotypic forms (A,B,C,D) of 190kD, 220kD, 160kD and 250kD respectively. The molecule is expressed by granulocytes, monocytes, B cells and some T cells. Functionally CD35 acts as a receptor for the C3b component of complement.
Uniprot ID:	P17927
NCBI:	9606
GeneID:	1378
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	E11
Immunogen:	Human acute monocytic leukaemia cells. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Format:	State: Liquid purified IgG fraction from Tissue Culture Supernatant Purification: Affinity Chromatography on Protein A Buffer System: PBS Preservatives: 0.09% Sodium Azide
Applications:	Flow Cytometry: Use 10 µl of 1/50-1/200 diluted antibody to label 10 ⁶ cells or 100 µl whole blood. Immunohistochemistry on Frozen Section: 1-10 µg/ml. Immunohistochemistry on Paraffin Section: 1-10 µg/ml. Requires antigen retrieval using heat treatment prior to staining of Paraffin sections. Sodium citrate buffer pH6.0 is recommended for this purpose. <i>Recommended Positive Control:</i> Human Tonsil. Western Blotting (Ref.3). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific for CD35, a single chain cell surface glycoprotein which exists in four allotypic forms (A,B,C,D) of 190kD, 220kD, 160kD and 250kD respectively. Species: Human, Cynomolgus monkey, Baboon, Rhesus Monkey. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. 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.
2. Yoshino N, Ami Y, Terao K, Tashiro F, Honda M. Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp Anim.* 2000 Apr;49(2):97-110. PubMed PMID: 10889948.
3. Birmingham, D. J. et al. (1996) The baboon erythrocyte complement receptor is glycoposphatidyl/insitolinked protein encoded by homologue of the human CR1 - like genetic element. *J. Immunol.* 157: 2586-2592.
4. Sopper S, Stahl-Hennig C, Demuth M, Johnston IC, Dörries R, ter Meulen V. Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. *Cytometry.* 1997 Dec 1;29(4):351-62. PubMed PMID: 9415418.

Pictures:

Staining of Human peripheral blood lymphocytes with Mouse anti Human CD35 Antibody Cat.-No SM1097P (Clone E11).

