

Monoclonal Antibody to CD38 - FITC

Alternate names:	ADP-ribosyl cyclase 1, Cyclic ADP-ribose hydrolase 1, T10, cADPr hydrolase 1
Catalog No.:	SM028F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD38 antigen is an integral membrane glycoprotein (M.W. 45 kD). The CD38 antigen is present on approximately all pre-B lymphocytes, plasma cells and thymocytes. CD38 antigen is also expressed on activated T Lymphocytes, NK Cells, monocytes, myeloblasts and erythroblasts. CD38 is co-expressed on CD34+ cells, but is not expressed on pluripotent stem cells. CD38 antigen is present on T and B lymphoblastic leukemia (ALL), Burkitts' lymphoma, multiple myeloma and acute myeloid leukemia (AML).
Uniprot ID:	P56528
NCBI:	NP_031672.2
GeneID:	12494
Host / Isotype:	Rat / IgG2a
Clone:	90
Immunogen:	Mouse pre-B cells derived from IL-7 dependent bone marrow cultures. Lymph node cells from an immunised rat were fused with cells of the mouse P3X63Ag.8.653 myeloma cell line.
Format:	State: Liquid purified IgG fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative and 0.5% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 10e6 cells in 100µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the CD38 cell surface antigen. Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: 6 month from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

- General References:**
1. Lund, F. et al. (1995) Murine CD38: an immunoregulatory ectoenzyme. *Immunol. Today.* 16: 469.
 2. Oliver, A.M. et al. (1997) Mouse CD38 is down-regulated on germinal center B cells and mature plasma cells. *J. Immunol.* 158: 1108-1115.

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