

SM036P**Monoclonal Antibody to CD48 - Purified**

Alternate names:	B-lymphocyte activation marker BLAST-1, BCM1, BCM1 surface antigen, BLAST1, Leukocyte antigen MEM-102, MEM-102, TCT.1
Quantity:	0.25 mg
Concentration:	1.0 mg/ml
Background:	CD48 is a ligand for the mouse CD2 cell surface antigen.
Uniprot ID:	P18181
NCBI:	NP_031675.1
GeneID:	12506
Host / Isotype:	Rat / IgG2a
Recommended Isotype Controls:	SM15P, SM15PX
Clone:	OX-78
Immunogen:	Recombinant soluble Mouse CD48. Spleen cells from immunised AO Rats were fused with cells from the Rat Y3 myeloma cell line.
Format:	State: Liquid purified IgG fraction from tissue culture supernatant Purification: Affinity Chromatography on Protein G Preservatives: 0.09% Sodium Azide
Applications:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10 ⁶ cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody labels Mouse thymocytes, B and T cells and macrophages. Species: Mouse. 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. Kato K, Koyanagi M, Okada H, Takanashi T, Wong YW, Williams AF, et al. CD48 is a counter-receptor for mouse CD2 and is involved in T cell activation. J Exp Med. 1992 Nov 1;176(5):1241-9. PubMed PMID: 1383383. 2. Lapaque N, Forquet F, de Chastellier C, Mishal Z, Jolly G, Moreno E, et al. Characterization of Brucella abortus lipopolysaccharide macrodomains as mega rafts. Cell Microbiol. 2006 Feb;8(2):197-206. PubMed PMID: 16441431. 3. Kashiwakura, Y. et al. (2012) CD2-mediated regulation of peripheral CD4(+) CD25(+) regulatory T cell apoptosis accompanied by downregulation of Bim. Immunology. Dec 24. [Epub ahead of print] 4. Wild MK, Cambiaggi A, Brown MH, Davies EA, Ohno H, Saito T, et al. Dependence of T cell antigen recognition on the dimensions of an accessory receptor-ligand complex.

J Exp Med. 1999 Jul 5;190(1):31-41. PubMed PMID: 10429668.

Pictures:

Staining of Mouse spleen cells with Rat Anti Mouse CD48 Antibody Cat.-No SM036.

