

CD48 monoclonal antibody, clone MEM-102 (APC)

Catalog # MAB4635

Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native CD48.
Immunogen	Native purified CD48 from Raji Burkitt's lymphoma cell line.
Host	Mouse
Theoretical MW (kDa)	40-47
Reactivity	Human, Non-Human Primates
Specificity	This antibody reacts with CD48 antigen (Blast-1), a 40-47 KDa GPI-anchored membrane protein (immunoglobulin supergene family) widely expressed on hematopoietic cells; it is negative on granulocytes, platelets and erythrocytes.
Form	Liquid
Conjugation	APC
Isotype	IgG1
Recommend Usage	Flow Cytometry (10 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — CD48

Entrez GeneID	962
Gene Name	CD48
Gene Alias	BCM1, BLAST, BLAST1, MEM-102, SLAMF2, hCD48, mCD48
Gene Description	CD48 molecule
Omim ID	109530
Gene Ontology	Hyperlink
Gene Summary	BLAST1 is the designation used for an activation-associated cell surface glycoprotein of 40 to 45 kD expressed primarily in mitogen-stimulated human lymphocytes. The protein sequence predicted by the cDNA encoding BLAST1 indicates that BLAST1 is a member of the immunoglobulin supergene family. Yokoyama (1991) identified the BLAST1 activation/adhesion molecule as CD48.[s applied by OMIM
Other Designations	CD48 antigen (B-cell membrane protein) OTTHUMP00000025680 OTTHUMP00000060268

Publication Reference

- [CD48 is an allergen and IL-3-induced activation molecule on eosinophils.](#)

Munitz A, Bachelet I, Eliashar R, Khodoun M, Finkelman FD, Rothenberg ME, Levi-Schaffer F.

Journal of Immunology 2006 Jul; 177(1):77.

Application: Flow Cyt, Human, Mouse, Human nasal polyp eosinophils, Peripheral blood eosinophils, Mouse bronchoalveolar lavage fluid

- [The human leucocyte antigen CD48 \(MEM-102\) is closely related to the activation marker Blast-1.](#)

Korínek V, Stefanová I, Angelisová P, Hilgert I, Horejsí V.

Immunogenetics 1991 Jan; 33(2):108.

Application: WB-Ce, WB-Tr, Human, Monkey, COS, PBMCs, Raji cells

- [Monoclonal antibodies against human leucocyte antigens. III. Antibodies against CD45R, CD6, CD44 and two newly described broadly expressed glycoproteins MEM-53 and MEM-102.](#)

Bazil V, Stefanová I, Hilgert I, Kristofová H, Vaněk S, Bukovský A, Horejsí V.

Folia Biol (Praha) 1989 Jan; 35(5):289.

Pathway

- [Natural killer cell mediated cytotoxicity](#)

Disease

- [Adenocarcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)