

Datasheet

CD48 monoclonal antibody, clone MEM-102 (FITC)

Catalog Number: MAB4637

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD48.

Clone Name: MEM-102

Immunogen: Native purified CD48 from Raji Burkitt's lymphoma cell line.

Host: Mouse

Theoretical MW (kDa): 40-47

Reactivity: Human, Non-Human Primates

Applications: Flow Cyt

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

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: FITC

Isotype: IgG1

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10⁶ 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.

Entrez GeneID: 962

Gene Symbol: CD48

Gene Alias: BCM1, BLAST, BLAST1, MEM-102, SLAMF2, hCD48, mCD48

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.[supplied by OMIM]

References:

1. 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. J Immunol. 2006 Jul 1;177(1):77-83.
2. The human leucocyte antigen CD48 (MEM-102) is closely related to the activation marker Blast-1. Korinek V, Stefanova I, Angelisova P, Hilgert I, Horejsi V. Immunogenetics. 1991;33(2):108-12.
3. 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, Stefanova I, Hilgert I, Kristofova H, Vanek S, Bukovsky A, Horejsi V. Folia Biol (Praha). 1989;35(5):289-97.