

Datasheet

SEMA7A monoclonal antibody, clone MEM-150 (FITC)

Catalog Number: MAB5051

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native SEMA7A.

Clone Name: MEM-150

Immunogen: Native purified SEMA7A from HPB-ALL human T cell line.

Host: Mouse

Theoretical MW (kDa): 80

Reactivity: Human

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 CD108 (JMH blood group antigen), a 80 kDa GPI-anchored glycoprotein expressed on various cell types including erythrocytes, lymphoblasts; at low levels it is present on circulating lymphocytes.

Form: Liquid

Conjugation: FITC

Isotype: IgM

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: 8482

Gene Symbol: SEMA7A

Gene Alias: CD108, CDw108, H-SEMA-K1, H-Sema-L, JMH, MGC126692, MGC126696, SEMAK1, SEMAL

Gene Summary: The protein encoded by this gene binds to cell surfaces through a glycosylphosphatidylinositol (GPI) linkage. The encoded glycoprotein is found on activated lymphocytes and erythrocytes. This protein may be involved in immunomodulatory and neuronal processes. Defects in this gene can result in loss of bone mineral density (BMD). Three transcript variants encoding different isoforms have been found for this gene]

References:

1. Semaphorin 7A initiates T-cell-mediated inflammatory responses through alpha1beta1 integrin. Suzuki K, Okuno T, Yamamoto M, Pasterkamp RJ, Takegahara N, Takamatsu H, Kitao T, Takagi J, Rennert PD, Kolodkin AL, Kumanogoh A, Kikutani H. *Nature*. 2007 Apr 5;446(7136):680-4. Epub 2007 Mar 21.
2. Characterization of the human leukocyte GPI-anchored glycoprotein CDw108 and its relation to other similar molecules. Angelisova P, Drbal K, Cerny J, Hilgert I, Horejsi V. *Immunobiology*. 1999 Jun;200(2):234-45.
3. Evidence that CDw108 membrane protein bears the JMH blood group antigen. Mudad R, Rao N, Angelisova P, Horejsi V, Telen MJ. *Transfusion*. 1995 Jul;35(7):566-70.