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## **Datasheet**

## CD9 monoclonal antibody, clone MEM-61 (FITC)

Catalog Number: MAB4566

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody

raised against native CD9.

Clone Name: MEM-61

Immunogen: Native purified CD9 from Pre-B cell line

NALM-6.

Host: Mouse

Theoretical MW (kDa): 24

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 recognizes an epitope on second extracellular domain (EC2) of CD9 antigen, a 24 KDa transmembrane protein expressed on platelets. monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes.

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, 15 mM 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 GenelD: 928

Gene Symbol: CD9

Gene Alias: 5H9, BA2, BTCC-1, DRAP-27, GIG2, MIC3,

MRP-1, P24, TSPAN29

Gene Summary: The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It can modulate cell adhesion and migration and also trigger platelet activation and aggregation. In addition, the protein appears to promote muscle cell fusion and support myotube maintenance. [provided by RefSeq]

## References:

- 1. Platelet tetraspanin complexes and their association with lipid rafts. Israels SJ, McMillan-Ward EM. Thromb Haemost. 2007 Nov;98(5):1081-7.
- 2. Role of CD9 in proliferation and proangiogenic action of human adipose-derived mesenchymal stem cells. Kim YJ, Yu JM, Joo HJ, Kim HK, Cho HH, Bae YC, Jung JS. Pflugers Arch. 2007 Nov;455(2):283-96. Epub 2007 Aug
- 3. The tetraspanin CD9 mediates lateral association of MHC class II molecules on the dendritic cell surface. Unternaehrer JJ, Chow A, Pypaert M, Inaba K, Mellman I. Proc Natl Acad Sci U S A. 2007 Jan 2;104(1):234-9. Epub 2006 Dec 26.