

Datasheet

IGF2R monoclonal antibody, clone MEM-238 (FITC)

Catalog Number: MAB5071

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against recombinant IGF2R.

Clone Name: MEM-238

Immunogen: Recombinant protein corresponding to IGF2R.

Host: Mouse

Reactivity: 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 recognizes an epitope between domains 2 and 5 of CD222 (IGF2 receptor), a ubiquitously expressed 250 KDa multifunctional type I transmembrane protein.

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: 3482

Gene Symbol: IGF2R

Gene Alias: CD222, CIMPR, M6P-R, MPR1, MPRI

Gene Summary: The protein encoded by this gene is a receptor for both, insulin-like growth factor 2 (IGF2) and mannose 6-phosphate (M6P). The IGF2 and M6P binding sites are located on different segments of the receptor. This receptor functions in the intracellular trafficking of lysosomal enzymes, the activation of transforming growth factor beta, and the degradation of IGF2. In mice, the homologous gene is expressed only from the maternal chromosome. [provided by RefSeq]

References:

1. Cell surface-expressed cation-independent mannose 6-phosphate receptor (CD222) binds enzymatically active heparanase independently of mannose 6-phosphate to promote extracellular matrix degradation. Wood RJ, Hulett MD. J Biol Chem. 2008 Feb 15;283(7):4165-76. Epub 2007 Dec 11.
2. Identification of the insulin-like growth factor II receptor as a novel receptor for binding and invasion by *Listeria monocytogenes*. Gasanov U, Koina C, Beagley KW, Aitken RJ, Hansbro PM. Infect Immun. 2006 Jan;74(1):566-77.
3. The N terminus of mannose 6-phosphate/insulin-like growth factor 2 receptor in regulation of fibrinolysis and cell migration. Leksa V, Godar S, Cebecauer M, Hilgert I, Breuss J, Weidle UH, Horejsi V, Binder BR, Stockinger H. J Biol Chem. 2002 Oct 25;277(43):40575-82. Epub 2002 Aug 19.