

# IGF2R monoclonal antibody, clone MEM-238 (FITC)

Catalog # MAB5071

Size 100 Reactions

## Specification

|                            |                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Mouse monoclonal antibody raised against recombinant IGF2R.                                                                                                             |
| <b>Immunogen</b>           | Recombinant protein corresponding to IGF2R.                                                                                                                             |
| <b>Host</b>                | Mouse                                                                                                                                                                   |
| <b>Reactivity</b>          | Human, Primates                                                                                                                                                         |
| <b>Specificity</b>         | This antibody recognizes an epitope between domains 2 and 5 of CD222 (IGF2 receptor), a ubiquitously expressed 250 KDa multifunctional type I transmembrane protein.    |
| <b>Form</b>                | Liquid                                                                                                                                                                  |
| <b>Conjugation</b>         | FITC                                                                                                                                                                    |
| <b>Isotype</b>             | IgG1                                                                                                                                                                    |
| <b>Recommend Usage</b>     | Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or $10^6$ cells in a suspension)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS (0.2% BSA, 0.09% sodium azide)                                                                                                                                   |
| <b>Storage Instruction</b> | Store in the dark at 4°C. Do not freeze.<br>Avoid prolonged exposure to light.<br>Aliquot to avoid repeated freezing and thawing.                                       |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                  |

## Applications

- Flow Cytometry

## Gene Info — IGF2R

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">3482</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Name          | IGF2R                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Alias         | CD222, CIMPR, M6P-R, MPR1, MPRI                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Description   | insulin-like growth factor 2 receptor                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Omim ID            | <a href="#">147280</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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] |
| Other Designations | OTTHUMP00000017536 cation-independent mannose-6 phosphate receptor insulin-like growth factor-2 receptor (mannose-6-phosphate receptor, cation-independent)                                                                                                                                                                                                                                                                                                                    |

## Publication Reference

- [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.

The Journal of Biological Chemistry 2007 Dec; 283(7):4165.
- [Identification of the insulin-like growth factor II receptor as a novel receptor for binding and invasion by Listeria monocytogenes.](#)

Gasarov U, Koina C, Beagley KW, Aitken RJ, Hansbro PM.

Infection and Immunity 2006 Jan; 74(1):566.

Application: WB-Ce, Mouse, McCoy, MS9, MS9II cells
- [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.

The Journal of Biological Chemistry 2002 Oct; 277(43):40575.

Application: Flow Cyt, Mouse, Mouse fibroblasts

## Pathway

- [Lysosome](#)

## Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Birth Weight](#)
- [Bone Neoplasms](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Chorioamnionitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Esophageal Neoplasms](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)

- [Metabolic Syndrome X](#)
- [Mouth Neoplasms](#)
- [Neoplasms](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Osteosarcoma](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)