

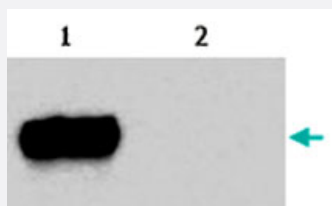
IGF2R monoclonal antibody, clone MEM-238

Catalog # MAB3860

Size 100 ug

Applications

Western Blot (Cell lysate)



Western Blotting analysis (non-reducing conditions) of IGF2R in whole cell lysate of Jurkat (human peripheral blood T cell leukemia cell line).

Lane 1 : Immunostaining with IGF2R monoclonal antibody, clone MEM-238 (Cat # MAB3860).

Lane 2 : Immunostaining with Isotype mouse IgG1 control.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant IGF2R.
Immunogen	Recombinant protein corresponding to human IGF2R.
Host	Mouse
Reactivity	Human
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. The majority of CD222 is found in the late endosomal/prelysosomal compartment, 5-10% in the plasma membrane and the truncated (220 KDa) form of CD222 is present in human and bovine serum.
Form	Liquid
Concentration	1 mg/mL
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction

Store at 4°C. Do not freeze.
Avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Lane 2 : Immunostaining with Isotype mouse IgG1 control.

- Flow Cytometry

Gene Info — IGF2R

Entrez GeneID[3482](#)**Gene Name**

IGF2R

Gene Alias

CD222, CIMPR, M6P-R, MPR1, MPRI

Gene Description

insulin-like growth factor 2 receptor

Omim ID[147280](#)**Gene Ontology**[Hyperlink](#)**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.

Application: IP, PI, Mouse, MS9-II cells

- [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

- [TGF-beta-induced apoptosis in endothelial cells mediated by M6P/IGFII-R and mini-plasminogen.](#)

Leksa V, Godar S, Schiller HB, Fuertbauer E, Muhammad A, Slezakova K, Horejsi V, Steinlein P, Weidle UH, Binder BR, Stockinger H.

Journal of Cell Science 2005 Oct; 118(Pt 19):4577.

Application: Flow Cyt, IF, IP, WB, Human, HUVECs, HUVSMCs

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](#)