IGF2R Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IGF2R, Polyclonal Antibody
Full Product Name	Phospho-IGF2R (Ser2409) Antibody
Product Gene Name	anti-IGF2R antibody
Product Synonym Gene Name	IGF2R
Product Synonym Names	300kDa mannose 6 phosphate receptor; 300kDa mannose 6-phosphate receptor; Cation independent mannose 6 phosphate receptor; Cation-independent mannose-6-phosphate receptor; CD222; CD222 antigen; CI Man 6 P receptor; CI Man-6-P receptor; CI MPR; CI-M6PR; CI-MPR; CIMPR; IGF 2 receptor; IGF 2R; IGF II receptor; IGF-II receptor; IGF2 receptor; Igf2r; Insulin like growth factor 2 receptor; Insulin like growth factor II receptor; Insulin-like growth factor 2 receptor; Insulin-like growth factor II receptor; M6P R; M6P/IGF2 receptor; M6P/IGF2R; M6PR; mannose 6 phosphate receptor; mannose 6 phosphate receptor, cation independent; MPR 300; MPR300; MPRI; MPRI_HUMAN
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Concentration	1mg/ml (lot specific)
Specificity	Phospho-IGF2R (Ser2409) Antibody detects endogenous levels of IGF2R only when phosphorylated at Ser2409.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	IGF2R (Ser2409) peptide (MBS9616288) is used for blocking the activity of IGF2R (Ser2409) antibody (MBS9613007)
Molecular Weight	274,375 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (160390131..160527583). Location: 6q26
OMIM	147280
3D Structure	ModBase 3D Structure for P11717
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human IGF2R around the phosphorylation site of Ser2409.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Binds HA-I and HA-II plasma membrane adapters (By similarity). Interacts with DPP4; the interaction is direct. Binds GGA1, GGA2 and GGA3.

Similarity	Contains 15 repeating units of approximately 147 AA harboring four disulfide bonds each. The most highly conserved region within the repeat consists of a stretch of 13 AA that contains cysteines at both ends.Belongs to the MRL1/IGF2R family.
Subcellular Location	Lysosome membrane>Single-pass type I membrane protein. Note: Colocalized with DPP4 in internalized cytoplasmic vesicles adjacent to the cell surface.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IGF2R antibody	Peptide ELISA (EIA)
Application Notes for anti-IGF2R antibody	Peptide ELISA: 1:20,000-1:40,000
Related Product Information for anti-IGF2R antibody	Transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelyosomal compartment where the low pHmediates the dissociation of the complex. This receptor also binds IGF2. Acts as a positive regulator of T-cell coactivation, by binding DPP4.
Other Notes	Small volumes of anti-IGF2R antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IGF2R purchase	MBS9613007 is an antibody targeting IGF2R. Also known as Phospho-IGF2R (Ser2409) Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IGF2R. It may not necessarily be applicable to this product.

NCBI GI #	119964726
NCBI GeneID	3482
NCBI Accession #	NP_000867.2
UniProt Primary Accession #	P11717
UniProt Secondary Accession #	Q7Z7G9; Q96PT5
UniProt Related Accession #	P11717
GenBank Nucleotide #	NM_000876.2
NCBI Official Full Name	cation-independent mannose-6-phosphate receptor
NCBI Official Synonym Full Names	insulin-like growth factor 2 receptor
NCBI Official Symbol	IGF2R
NCBI Official Synonym Symbols	MPR1; MPRI; CD222; CIMPR; M6P-R
UniProt Protein Name	Cation-independent mannose-6-phosphate receptor
UniProt Synonym Protein Names	300 kDa mannose 6-phosphate receptor; MPR 300; Insulin-like growth factor 2 receptor; Insulin-like growth factor II receptor; IGF-II receptor; M6P/IGF2 receptor
Protein Family	Cation-independent mannose-6-phosphate receptor
UniProt Gene Name	IGF2R
UniProt Synonym Gene Names	MPRI; CI Man-6-P receptor; CI-MPR; M6PR; MPR 300; IGF-II receptor; M6P/IGF2R
UniProt Entry Name	MPRI_HUMAN

NCBI Protein Information	cation-independent mannose-6-phosphate receptor; M6PR; CI-MPR; MPR 300; M6P/IGF2R; IGF-II receptor; M6P/IGF2 receptor; CI Man-6-P receptor; 300 kDa mannose 6-phosphate receptor; insulin-like growth factor II receptor; cation-independent mannose-6 phosphat
NCBI Summary for IGF2R	This gene encodes a receptor for both insulin-like growth factor 2 and mannose 6-phosphate, although the binding sites for either 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 insulin-like growth factor 2. While the related mouse gene shows exclusive expression from the maternal allele, imprinting of the human gene appears to be polymorphic, with only a minority of individuals showing expression from the maternal allele. [provided by RefSeq, Apr 2013]
UniProt Comments for IGF2R	IGF2R: a multifunctional type I transmembrane protein receptor that binds insulin-like growth factor 2 at the cell surface and mannose-6-phosphate-tagged proteins in the trans-Golgi network. Also known as the cation-independent mannose-6 phosphate (M6P) receptor. Clears IGF2 from the cell surface to attenuate signaling, and transports M6P-tagged lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. M6P-tagged lysosomal enzymes bind specifically to mannose-6- phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelyosomal compartment where the low pH mediates the dissociation of the complex. Acts as a positive regulator of T-cell coactivation, by binding DPP4. Belongs to the MRL1/IGF2R family. Protein type: Receptor, misc.; Vesicle; Membrane protein, integral Chromosomal Location of Human Ortholog: 6q26 Cellular Component: extracellular space; cell surface; clathrin coat; focal adhesion; lysosomal membrane; integral to plasma membrane; trans-Golgi network; trans-Golgi network transport vesicle; membrane; nuclear envelope lumen; perinuclear region of cytoplasm; endocytic vesicle; late endosome; endosome Molecular Function: G-protein coupled receptor activity; identical protein binding; mannose binding; protein binding; retinoic acid binding; enzyme binding; transporter activity; G-protein alpha-subunit binding; phosphoprotein binding; receptor activity; glycoprotein binding; insulin-like growth factor II binding; insulin-like growth factor receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; receptor-mediated endocytosis; organ regeneration; response to retinoic acid; insulin-like growth factor receptor signaling pathway; positive regulation of apoptosis; spermatogenesis; signal transduction; liver development; post-embryonic development Disease: Hepatocellular Carcinoma
Research Articles on IGF2R	**1.** Results showed that insulin-like growth factor 2 ApaI and IFG2R Gly1619Arg gene polymorphisms are not associated with male infertility.
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