Cation-Dependent Mannose-6-Phosphate Receptor (M6PR) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cation-dependent mannose-6-phosphate receptor (M6PR), Polyclonal Antibody
Full Product Name	Rabbit anti-human Cation-dependent mannose-6-phosphate receptor polyclonal Antibody, FITC
Product Gene Name	anti-M6PR antibody
Product Synonym Names	46 kDa mannose 6-phosphate receptor; M6PR.MPR46; MPRD
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: Cation-dependent mannose-6-phosphate receptor (MBS1491281) FITC Conjugated Antibody: Cation-dependent mannose-6-phosphate receptor (MBS1491214)
Molecular Weight	30,993 Da
OMIM	154540
3D Structure	ModBase 3D Structure for P20645
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	FITC
Immunogen	Recombinant human Cation-dependent mannose-6-phosphate receptor protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-34575 / sc-34574 / sc-66826
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-M6PR antibody	ELISA (EIA)
Related Product Information for anti-M6PR 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 pH mediates the dissociation of the complex.
Other Notes	Small volumes of anti-M6PR 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 M6PR purchase	MBS1491214 is an antibody targeting M6PR. Also known as Rabbit anti-human Cation-dependent mannose-6-phosphate receptor polyclonal Antibody, FITC. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for M6PR. It may not necessarily be applicable to this product.

NCBI GI #	4505061

NCBI GeneID	4074
NCBI Accession #	NP_002346.1
UniProt Primary Accession #	P20645
UniProt Secondary Accession #	A8K528; D3DUV5
UniProt Related Accession #	P20645
GenBank Nucleotide #	NM_002355.3
NCBI Official Full Name	cation-dependent mannose-6-phosphate receptor isoform 1
NCBI Official Synonym Full Names	mannose-6-phosphate receptor (cation dependent)
NCBI Official Symbol	M6PR
NCBI Official Synonym Symbols	SMPR; MPR46; CD-MPR; MPR 46; MPR-46
UniProt Protein Name	Cation-dependent mannose-6-phosphate receptor
UniProt Synonym Protein Names	46 kDa mannose 6-phosphate receptor; MPR 46
Protein Family	Cation-dependent mannose-6-phosphate receptor
UniProt Gene Name	M6PR
UniProt Synonym Gene Names	MPR46; MPRD; CD Man-6-P receptor; CD-MPR; MPR 46
UniProt Entry Name	MPRD_HUMAN
NCBI Protein Information	cation-dependent mannose-6-phosphate receptor
NCBI Summary for M6PR	This gene encodes a member of the P-type lectin family. P-type lectins play a critical role in lysosome function through the specific transport of mannose-6-phosphate-containing acid hydrolases from the Golgi complex to lysosomes. The encoded protein functions as a homodimer and requires divalent cations for ligand binding. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome X. [provided by RefSeq, May 2011]
UniProt Comments for M6PR	M6PR: 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 pH mediates the dissociation of the complex. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13 Cellular Component: endosome; integral to plasma membrane; late endosome; lysosomal membrane; membrane; perinuclear region of cytoplasm; trans-Golgi network Molecular Function: mannose binding; mannose transmembrane transporter activity; transmembrane receptor activity Biological Process: endosome to lysosome transport; mannose transport; receptor-mediated endocytosis; signal transduction
Research Articles on M6PR	**1.** Results suggest that Rab protein Rab29 is essential for the integrity of the trans-Golgi network (TGN) and participates in the retrograde trafficking of mannose-6-phosphate receptor (M6PR).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/cation-dependent-mannose-6-phosphate-receptor/1491214