

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD-M6PR Luminal Domain in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant mouse CD-M6PR is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD-M6PR Luminal Domain Thr27-His185 Accession # P20645
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The CD-M6PR (cation-dependent mannose 6-phosphate receptor; also CD-MPR) is a 44-46 kDa member of the P-type lectin family of proteins. It is ubiquitously expressed, found internally, and transports newly formed mannose 6-phosphate bearing acid hydrolases from the secretory pathway to acidified lysosomes. Mature human CD-M6PR is a type I transmembrane glycoprotein that is 251 amino acids (aa) in length. It functions as a homodimer, and contains a 159 aa luminal region (aa 27-185) plus a 67 aa cytoplasmic domain. The aa residues Gln66, Arg111, Glu133 and Tyr143 recognize carbohydrate; Asp103 interacts with divalent cation (Mn²⁺), increasing ligand affinity and receptor oligomerization. Over aa 27-184, human CD-M6PR shares 90% aa identity with mouse CD-M6PR.

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