

Summary

| Production Name | MAN1B1 Rabbit Polyclonal Antibody |
|-----------------|-----------------------------------|
| Description | Rabbit Polyclonal Antibody |
| Host | Rabbit |
| Application | WB,ELISA |
| Reactivity | Human,Rat,Mouse |

Performance

| Conjugation | Unconjugated |
|--------------|--|
| Modification | Unmodified |
| lsotype | IgG |
| Clonality | Polyclonal |
| Form | Liquid |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw |
| | cycles. |
| Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| Purification | Affinity purification |

Immunogen

| Gene Name | MAN1B1 |
|-------------------|--|
| | MAN1B1; Endoplasmic reticulum mannosyl-oligosaccharide 1; 2-alpha-mannosidase; |
| Alternative Names | ER alpha-1,2-mannosidase; ER mannosidase 1; ERMan1; Man9GlcNAc2-specific- |
| | processing alpha-mannosidase; Mannosidase alpha class 1B member 1 |
| Gene ID | 11253.0 |
| SwissProt ID | Q9UKM7.Synthesized peptide derived from MAN1B1 . at AA range: 100-180 |

Application

| Dilution Ratio | WB 1:500 - 1:2000. ELISA: 1:10000 |
|------------------|-----------------------------------|
| Molecular Weight | 80kD |



Background

This gene encodes an enzyme belonging to the glycosyl hydrolase 47 family. This enzyme functions in N-glycan biosynthesis, and is a class I alpha-1,2-mannosidase that specifically converts Man9GlcNAc to Man8GlcNAc isomer B. It is required for N-glycan trimming to Man5-6GlcNAc2 in the endoplasmic-reticulum-associated degradation pathway. Mutations in this gene cause autosomal-recessive intellectual disability. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 11. [provided by RefSeq, Dec 2011],catalytic activity:Hydrolysis of the terminal (1->2)-linked alpha-D-mannose residues in the oligo-mannose oligosaccharide Man(9) (GlcNAc)(2).,cofactor:Calcium.,enzyme regulation:Inhibited by both 1-deoxymannojirimycin and kifunensine.,function:Involved in the maturation of Asn-linked oligosaccharides. Trim a single alpha-1,2-linked mannose residue from Man(9)GlcNAc(2) to produce Man(8)GlcNAc(2). The only product is the Man(8)GlcNAc(2) isomer B, the form lacking the middle-arm terminal alpha 1,2-mannose. It may be involved in glycoprotein quality control since it is important to target misfolded glycoproteins for degradation.,pathway:Protein modification; protein glycosylation.,similarity:Belongs to the glycosyl hydrolase 47 family.,tissue specificity:Widely expressed.,

Research Area

N-Glycan biosynthesis;

Image Data



Western blot analysis of MAN1B1 Antibody. The lane on the right is blocked with the MAN1B1 peptide.



Product Name: MAN1B1 Rabbit Polyclonal Antibody Catalog #: APRab13617



Western Blot analysis of 3T3 cells using MAN1B1 Polyclonal Antibody

Note

For research use only.