

MAN1B1 Polyclonal Antibody

Catalog No :	YT2633
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	MAN1B1
Fields :	>>N-Glycan biosynthesis;>>Various types of N-glycan biosynthesis;>>Metabolic pathways;>>Protein processing in endoplasmic reticulum
Gene Name :	MAN1B1
Protein Name :	Endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase
Human Gene Id :	11253
Human Swiss Prot No :	Q9UKM7
Mouse Swiss Prot No :	A2AJ15
Immunogen :	Synthesized peptide derived from MAN1B1 . at AA range: 100-180
Specificity :	MAN1B1 Polyclonal Antibody detects endogenous levels of MAN1B1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 80kD

Cell Pathway : N-Glycan biosynthesis;

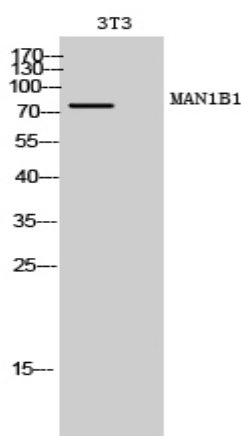
Background : This gene encodes an enzyme belonging to the glycosyl hydrolase 47 family. This enzyme functions in N-glycan biosynthesis, and is a class I alpha-1,2-mannosidase that specifically converts Man9GlcNAc to Man8GlcNAc isomer B. It is required for N-glycan trimming to Man5-6GlcNAc2 in the endoplasmic-reticulum-associated 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],

Function : 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.,

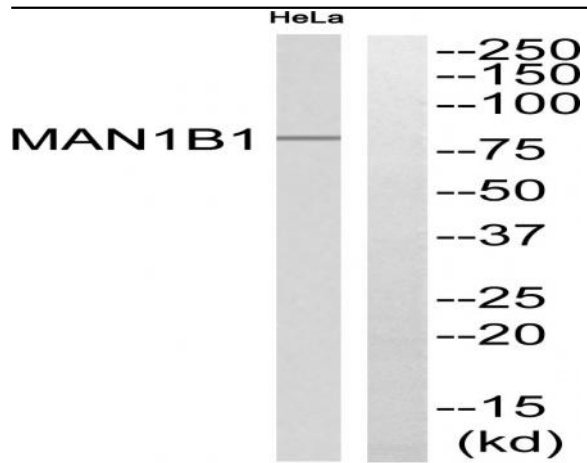
Subcellular Location : Endoplasmic reticulum membrane ; Single-pass type II membrane protein .

Expression : Widely expressed.

Products Images



Western Blot analysis of 3T3 cells using MAN1B1 Polyclonal Antibody



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