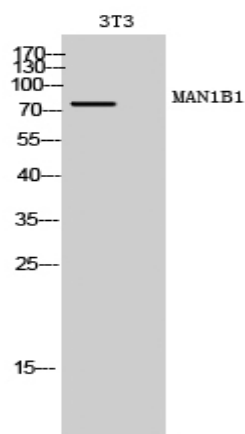


MAN1B1 Polyclonal Antibody

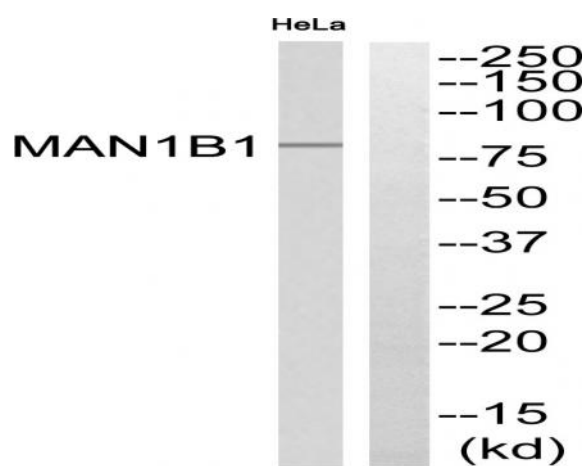
Catalog No :	YT2633
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	MAN1B1
Fields :	>>N-Glycan biosynthesis;>>Various types of N-glycan biosynthesis;>>Metabolic pathways;>>Protein processing in endoplasmic reticulum
Gene Name :	MAN1B1
Protein Name :	Endoplasmic reticulum mannosyl-oligosaccharide 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 :	<p>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],</p>
Function :	<p>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.,</p>
Subcellular Location :	Endoplasmic reticulum membrane ; Single-pass type II membrane protein .
Expression :	Widely expressed.
Sort :	9356
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

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.