

MAN1B1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant MAN1B1.

Catalog # AT2770a

Product Information

Application	WB, IHC, E
Primary Accession	Q9UKM7
Other Accession	NM_016219
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6B1
Calculated MW	79580

Additional Information

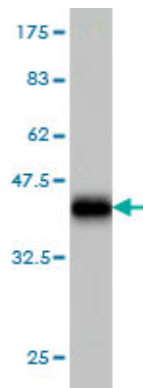
Gene ID	11253
Other Names	Endoplasmic reticulum mannosyl-oligosaccharide 1, 2-alpha-mannosidase, ER alpha-1, 2-mannosidase, ER mannosidase 1, ERMan1, Man9GlcNAc2-specific-processing alpha-mannosidase, Mannosidase alpha class 1B member 1, MAN1B1
Target/Specificity	MAN1B1 (NP_057303, 112 a.a. ~ 211 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MAN1B1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

References

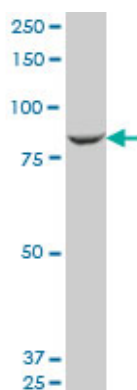
Polymorphism in the endoplasmic reticulum mannosidase I (MAN1B1) gene is not associated with liver disease in individuals homozygous for the Z variant of the alpha1-antitrypsin protease inhibitor (PiZZ individuals). Chappell S, et al. Hepatology, 2009 Oct. PMID 19739260. Single nucleotide polymorphism-mediated translational suppression of endoplasmic reticulum mannosidase I modifies the onset of end-stage liver disease in alpha1-antitrypsin deficiency. Pan S, et al. Hepatology, 2009 Jul. PMID 19444872. Theory and computation show that Asp463 is the catalytic proton donor in human endoplasmic reticulum alpha-(1-->2)-mannosidase I. Cant? D, et al. Carbohydr Res, 2008 Sep 8. PMID

18619586. Endoplasmic reticulum (ER) mannosidase I is compartmentalized and required for N-glycan trimming to Man5-6GlcNAc2 in glycoprotein ER-associated degradation. Avezov E, et al. Mol Biol Cell, 2008 Jan. PMID 18003979. Stimulation of ERAD of misfolded null Hong Kong alpha1-antitrypsin by Golgi alpha1,2-mannosidases. Hosokawa N, et al. Biochem Biophys Res Commun, 2007 Oct 26. PMID 17727818.

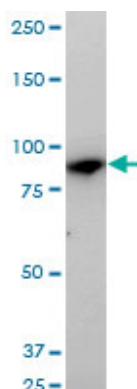
Images



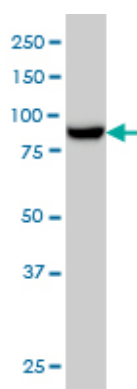
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



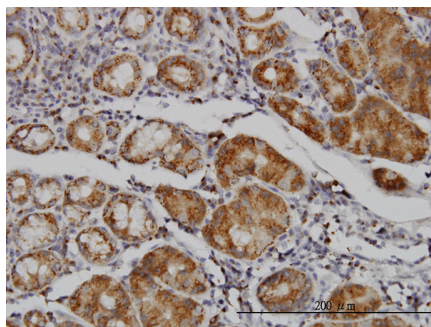
MAN1B1 monoclonal antibody (M01), clone 6B1. Western Blot analysis of MAN1B1 expression in HepG2 ((Cat # AT2770a)



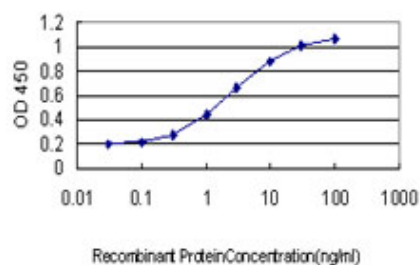
MAN1B1 monoclonal antibody (M01), clone 6B1. Western Blot analysis of MAN1B1 expression in LNCaP ((Cat # AT2770a)



MAN1B1 monoclonal antibody (M01), clone 6B1 Western Blot analysis of MAN1B1 expression in A-431 ((Cat # AT2770a)



Immunoperoxidase of monoclonal antibody to MAN1B1 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged MAN1B1 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.