

MAN1B1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant MAN1B1.****Catalog # AT2770a****Specification**

MAN1B1 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, E
Primary Accession	Q9UKM7
Other Accession	NM_016219
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	79580

MAN1B1 Antibody (monoclonal) (M01) - 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

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.

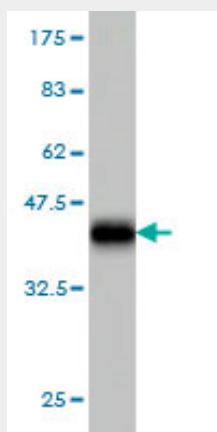
MAN1B1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

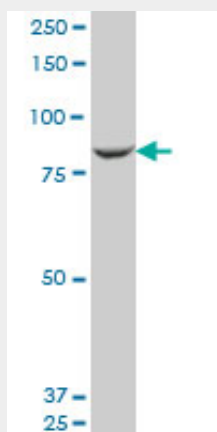
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

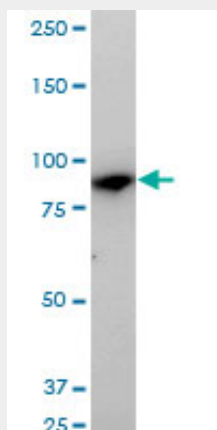
MAN1B1 Antibody (monoclonal) (M01) - Images



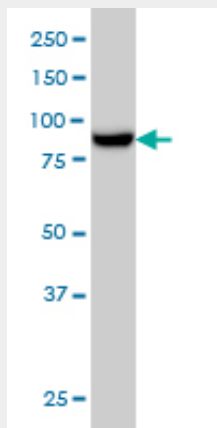
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



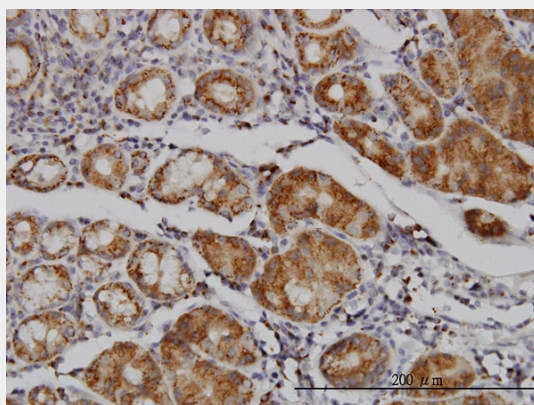
MAN1B1 monoclonal antibody (M01), clone 6B1. Western Blot analysis of MAN1B1 expression in HepG2 ((Cat # AT2770a)



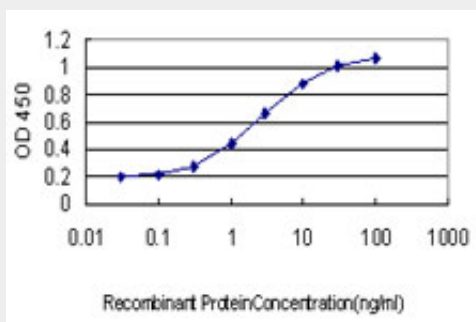
MAN1B1 monoclonal antibody (M01), clone 6B1. Western Blot analysis of MAN1B1 expression in LNCaP ((Cat # AT2770a)



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.

MAN1B1 Antibody (monoclonal) (M01) - 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.