For Research Use Only

MAN1B1 Monoclonal antibody

Catalog Number: 68121-1-Ig



Basic Information

 Catalog Number:
 GenBank Accession Number:

 68121-1-lg
 BC002953

 Size:
 GeneID (NCBI):

 1000 μ g/ml
 11253

 Source:
 UNIPROT ID:

 Mouse
 ORLIGHT

Mouse Q9UKM7

Isotype: Full Name:
IgG2b mannosidase, alpha, class 1B,

Immunogen Catalog Number: member 1

AG28302 Calculated MW: 80 kDa

Observed MW: 80 kDa Purification Method:

Protein A purification CloneNo.:

3C9F10

Recommended Dilutions: WB 1:1000-1:6000 IF/ICC 1:400-1:1600

Applications

Tested Applications: WB, IF/ICC, ELISA Species Specificity: Positive Controls:

WB: HeLa cells, MCF-7 cells, HEK-293 cells, LNCaP cells, HaCaT cells, U-87 MG cells, HepG2 cells

IF/ICC: U2OS cells,

Background Information

MAN1B1, also known as ERMAN1, MANA-ER, belongs to the glycosyl hydrolase 47 family. MAN1B1 is involved in glycoprotein quality control targeting of misfolded glycoproteins for degradation, specifically converting Man9GlcNAc to Man8GlcNAc isomer B. At high enzyme concentrations, it further trims the carbohydrates to Man5-6GlcNAc2 (PMID: 18003979). Mutations in MAN1B1 cause autosomal-recessive intellectual disability. This gene has been associated with Rafiq syndrome (PMID: 21763484).

Storage

Storage:

Store at -20°C. Stable for one year after shipment. Storage Buffer:

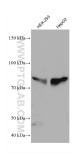
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

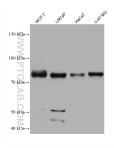
Selected Validation Data



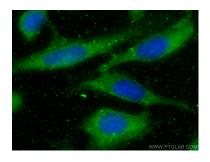
HeLa cells were subjected to SDS PAGE followed by western blot with 68121-1-1g (MAN1B1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 68121-1-lg (MAN1B1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 68121-1-1g (MAN1B1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using MAN1B1 antibody (68121-1-Ig, Clone: 3C9F10) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).