

For Research Use Only

MAN1B1 Recombinant antibody

Catalog Number: 84588-1-RR



Basic Information

Catalog Number:

84588-1-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG28302

GenBank Accession Number:

BC002953

GeneID (NCBI):

11253

UNIPROT ID:

Q9UKM7

Full Name:

mannosidase, alpha, class 1B, member 1

Calculated MW:

80 kDa

Observed MW:

80 kDa

Purification Method:

Protein A purification

CloneNo.:

241817E10

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

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

*** 20ul sizes contain 0.1% BSA

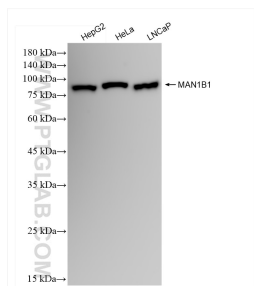
For technical support and original validation data for this product please contact:

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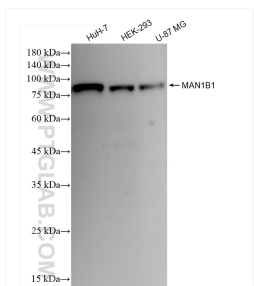
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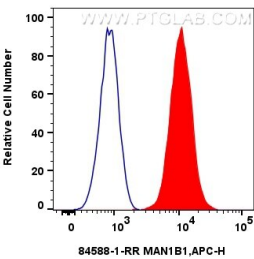
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84588-1-RR (MAN1B1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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1x10⁶ U2OS cells were intracellularly stained with 0.2 ug MAN1B1 Recombinant antibody (84588-1-RR, Clone:241817E10) and Multi-rAb CoraLite ® Plus 647-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR005)(red), or 0.2 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).