# Recombinant Human MAN1B1 293 Cell Lysate

**Cat. No.** MAN1B1-4526HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for mannosidase, alpha, class 1B, member 1 (MAN1B1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection. |
| **Components** | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| **Size** | 0.1 mg |
| **Storage Instruction** | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment. |

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| **Applications** | ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane. |

## GENE INFORMATION

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| **Gene Name** | MAN1B1 mannosidase, alpha, class 1B, member 1 [ Homo sapiens ] |
| **Official Symbol** | MAN1B1 |
| **Synonyms** | MAN1B1; mannosidase, alpha, class 1B, member 1; endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase; alpha 1; 2 mannosidase; endoplasmic reticulum alpha mannosidase 1; endoplasmic reticulum mannosyl oligosaccharide 1; 2 alpha mannosidase 1; ER alpha 1; Man9GlcNAc2 specific processing alpha mannosidase; MANA ER; ER alpha 1,2-mannosidase; Man9GlcNAc2-specific processing alpha-mannosidase; endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase 1; MRT15; ERMAN1; MANA-ER; FLJ37559; |
| **Gene ID** | 11253 |
| **mRNA Refseq** | NM_016219 |
| **Protein Refseq** | NP_057303 |
| **MIM** | 604346 |
| **UniProt ID** | Q9UKM7 |
| **Chromosome Location** | 9q34.3 |

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| **Pathway** | Asparagine N-linked glycosylation, organism-specific biosystem; Calnexin/calreticulin cycle, organism-specific biosystem; ER Quality Control Compartment (ERQC), organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan biosynthesis, organism-specific biosystem; N-Glycan biosynthesis, conserved biosystem; |
| **Function** | calcium ion binding; hydrolase activity, acting on glycosyl bonds; mannosyl-oligosaccharide 1,2-alpha-mannosidase activity; mannosyl-oligosaccharide 1,2-alpha-mannosidase activity; |

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