

Human Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA (MAN1A1) ELISA Kit

Catalog No: #EK9964

Orders: order@signalwayantibody.com

Package Size: #EK9964-1 48T #EK9964-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA (MAN1A1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HUMM3; HUMM9; MAN9; Man9-mannosidase alpha-1;2-mannosidase IA mannosyl-oligosaccharide 1;2-alpha-mannosidase IA
Accession No.	P33908
Uniprot	P33908
GeneID	4121;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.057 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MAN1A1 in samples. An antibody specific for MAN1A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAN1A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAN1A1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MAN1A1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**MAN1A1 encodes a class I mammalian Golgi 1,2-mannosidase which is a type II transmembrane protein. This protein catalyzes the removal of 3 distinct mannose residues from peptide-bound Man(9)-GlcNAc(2) oligosaccharides and belongs to family 47 of glycosyl hydrolases. Using an oligonucleotide probe derived from a pig liver Man(9)-mannosidase-specific cDNA template, Bause et al. (1993) isolated Man(9)-mannosidase from a human kidney cDNA library. The full-length cDNA predicted a 625-amino acid protein with a calculated molecular mass of 71 kD. Man(9)-mannosidase is a type II transmembrane protein with a short cytoplasmic polypeptide tail, a single transmembrane domain acting as a noncleavable signal sequence, a large luminal catalytic domain, and 3 potential N-glycosylation sites.

Note: This product is for in vitro research use only