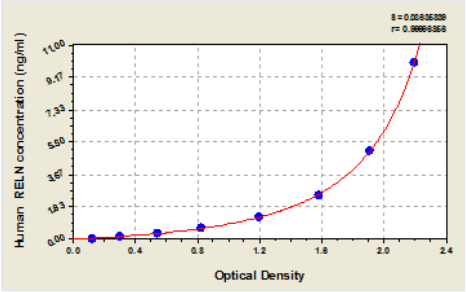
Reelin (RELN) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	reelin (RELN), ELISA Kit
Full Product Name	Human Reelin, RELN ELISA Kit
Product Gene Name	RELN elisa kit
Product Synonym Names	Human Reelin (RELN) ELISA kit; PRO1598; RL; OTTHUMP00000211830; reelin
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	0.156 ng/ml-10 ng/ml
Sensitivity	< 0.039 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human RELN. No significant cross-reactivity or interference between human RELN and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	388,388 Da
OMIM	600514
3D Structure	ModBase 3D Structure for P78509
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RELN elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for RELN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any RELN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RELN is added to the wells. After washing, avidin 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 RELN bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of RELN elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RELN purchase	MBS904954 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the reelin (RELN) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing RELN. The ELISA analytical biochemical technique of the MBS904954 kit is based on RELN antibody-RELN antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RELN antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RELN. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of RELN elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RELN. It may not necessarily be applicable to this product.

NCBI GI #	27436938
NCBI GeneID	5649
NCBI Accession #	NP_005036.2
UniProt Primary Accession #	P78509
UniProt Secondary Accession #	Q86UJ0; Q86UJ8; Q8NDV0; Q9UDQ2; A4D0P9; A4D0Q0
UniProt Related Accession #	P78509
GenBank Nucleotide #	NM_005045.3
NCBI Official Full Name	reelin isoform a
NCBI Official Synonym Full Names	reelin
NCBI Official Symbol	RELN
NCBI Official Synonym Symbols	RL; LIS2; PRO1598
UniProt Protein Name	Reelin
Protein Family	Reelin
UniProt Gene Name	RELN
UniProt Entry Name	RELN_HUMAN
NCBI Protein Information	reelin
NCBI Summary for RELN	This gene encodes a large secreted extracellular matrix protein thought to control cell-cell interactions critical for cell positioning and neuronal migration during brain development. This protein may be involved in schizophrenia, autism, bipolar disorder, major depression and in migration defects associated with temporal lobe epilepsy. Mutations of this gene are associated with autosomal recessive lissencephaly with cerebellar hypoplasia. Two transcript variants encoding distinct isoforms have been identified for this gene. Other transcript variants have been described but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for RELN	reelin: Extracellular matrix serine protease that plays a role in layering of neurons in the cerebral cortex and cerebellum. Regulates microtubule function in neurons and neuronal migration. Affects migration of sympathetic preganglionic neurons in the spinal cord, where it seems to act as a barrier to neuronal migration. Enzymatic activity is important for the modulation of cell adhesion. Binding to the extracellular domains of lipoprotein receptors VLDLR and LRP8/APOER2 induces tyrosine phosphorylation of DAB1 and modulation of TAU phosphorylation. Defects in RELN are the cause of lissencephaly type 2 (LIS2); also known as lissencephaly with cerebellar hypoplasia or Norman-Roberts syndrome. LIS2 is a classic type lissencephaly associated with abnormalities of the cerebellum, hippocampus and brainstem. Individuals with LIS2 are severely ataxic, mentally retarded and suffer from epilepsy. Belongs to the reelin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; Cell adhesion; Protease; EC 3.4.21.-; Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 7q22 Cellular Component: proteinaceous extracellular matrix; extracellular space; dendrite; cytoplasm Molecular Function: serine-type peptidase activity; metal ion binding; protein serine/threonine/tyrosine kinase activity Biological Process: axon guidance; cellular morphogenesis during differentiation; peptidyl-tyrosine phosphorylation; central nervous system development; spinal cord patterning; neuron migration; response to pain; proteolysis; positive regulation of synaptic transmission, glutamatergic; glial cell differentiation; dendrite development; cell adhesion; positive regulation of TOR signaling pathway; associative learning; layer formation in the cerebral cortex; regulation of behavior; regulation of synaptic transmission; cerebral cortex tangential migration; hippocampus development; activation of CREB transcription factor; ventral spinal cord development; positive regulation of small GTPase mediated signal transduction; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of peptidyl-tyrosine phosphorylation; long-term memory; positive regulation of protein kinase activity; brain development Disease: Epilepsy, Familial Temporal Lobe, 7; Lissencephaly 2; Epilepsy, Familial Temporal Lobe, 1
Research Articles on RELN	**1.** Data suggest that PS1/gamma-secretase-dependent processing of the reelin receptor ApoER2 inhibits reelin expression and may regulate its signaling.
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