Delta-Like Protein 1 (DLL1) ELISA Kit for Human

PRODUCT OVERVIEW

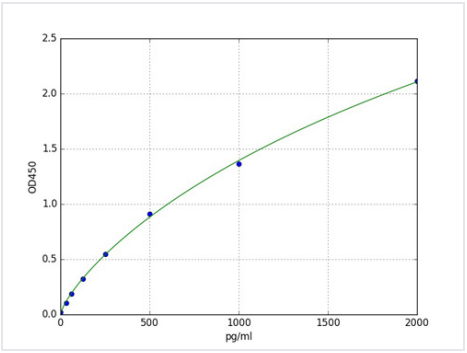
Product Name	Delta-like protein 1 (DLL1), ELISA Kit
Full Product Name	Human Delta-like protein 1 ELISA Kit
Product Gene Name	DLL1 elisa kit
Product Synonym Names	DLL1 (Delta-like protein 1)
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	27,355 Da
OMIM	606582
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DLL1 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human DLL1antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human DLL1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRPStreptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human DLL1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration ofHuman DLL1can be calculated.
Other Notes	Small volumes of DLL1 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 DLL1 purchase	MBS760749 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Delta-like protein 1 (DLL1) 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 DLL1. The ELISA analytical biochemical technique of the MBS760749 kit is based on DLL1 antibody-DLL1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DLL1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DLL1. 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 Data & Standard Curve

Results of a typical standard run of a Human DLL1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	pg/ml	0	31.2	62.5	125	250	500	1000	2000
Y	OD450	0.032	0.111	0.195	0.368	0.735	1.192	1.951	2.463

Typical Testing Data of DLL1 elisa kit



Typical Standard Curve of DLL1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DLL1. It may not necessarily be applicable to this product.

NCBI GI #	110735443
NCBI GeneID	28514
NCBI Accession #	NP_005609.3
UniProt Secondary Accession #	Q9NU41; Q9UJV2; B2RAK7; B5M0B3
UniProt Related Accession #	O00548
GenBank Nucleotide #	NM_005618.3
NCBI Official Full Name	delta-like protein 1
NCBI Official Synonym Full Names	delta-like 1 (Drosophila)
NCBI Official Symbol	DLL1
NCBI Official Synonym Symbols	DL1; Delta; DELTA1
UniProt Protein Name	Delta-like protein 1
UniProt Synonym Protein Names	Drosophila Delta homolog 1; Delta1; H-Delta-1
Protein Family	Delta-like protein
UniProt Gene Name	DLL1
UniProt Synonym Gene Names	Delta1; H-Delta-1
UniProt Entry Name	DLL1_HUMAN
NCBI Protein Information	delta-like protein 1
NCBI Summary for DLL1	DLL1 is a human homolog of the Notch Delta ligand and is a member of the delta/serrate/jagged family. It plays a role in mediating cell fate decisions during hematopoiesis. It may play a role in cell-to-cell communication. [provided by RefSeq, Jul 2008]

UniProt Comments for DLL1	DLL1: Acts as a ligand for Notch receptors. Blocks the differentiation of progenitor cells into the B-cell lineage while promoting the emergence of a population of cells with the characteristics of a T-cell/NK-cell precursor. Interacts with Notch receptors. Expressed in heart and pancreas, with lower expression in brain and muscle and almost no expression in placenta, lung, liver and kidney. Protein type: Cell development/differentiation; Motility/polarity/chemotaxis; Membrane protein, integral Chromosomal Location of Human Ortholog: 6q27 Cellular Component: adherens junction; apical plasma membrane; cytoplasmic vesicle; extracellular region; integral to plasma membrane; lipid raft; plasma membrane Molecular Function: calcium ion binding; Notch binding; protein binding; Tat protein binding Biological Process: astrocyte development; cell differentiation; cell fate determination; cerebellar molecular layer formation; cerebellar Purkinje cell layer structural organization; compartment specification; determination of left/right symmetry; heart looping; hemopoiesis; inner ear development; lateral inhibition; marginal zone B cell differentiation; negative regulation of auditory receptor cell differentiation; negative regulation of cell differentiation; negative regulation of cell proliferation; negative regulation of epidermal cell differentiation; negative regulation of epithelial cell differentiation; negative regulation of interleukin-10 production; negative regulation of myeloid cell differentiation; negative regulation of myoblast differentiation; negative regulation of neuron differentiation; neuron fate specification; Notch receptor processing; Notch signaling pathway; organ growth; positive regulation of cell proliferation; positive regulation of endocytosis; positive regulation of Notch signaling pathway; positive regulation of skeletal muscle growth; positive regulation of transcription from RNA polymerase II promoter; proximal/distal pattern formation; regulation of blood pressure; regulation of cell adhesion; regulation of cell division; regulation of growth; regulation of neurogenesis; regulation of skeletal muscle growth; regulation of somitogenesis; retina development in camera-type eye; retina morphogenesis in camera-type eye; skeletal muscle growth; somite specification; somitogenesis; spinal cord development
Research Articles on DLL1	**1.** Although Delta1 activates signal transducer and activator of transcription 3 signaling similarly to the gp130-activating cytokine interleukin-6 (IL-6), it has opposite effects on myeloid cell production.
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