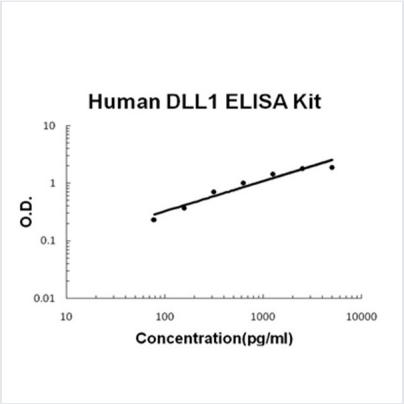
DLL1 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	DLL1, ELISA Kit
Full Product Name	Human DLL1 PicoKine ELISA Kit
Product Gene Name	DLL1 elisa kit
Product Synonym Names	Delta-like protein 1; delta-like 1 (Drosophila); Delta (Drosophila) like 1; Delta like 1 (Drosophila); Delta like 1; Delta like 1 protein; Delta like protein 1; Delta like protein 1 precursor; Delta, Drosophila, homolog of 1; Delta-like protein 1 [Precursor]; Delta-like protein 1; Delta1; DL1; DLL 1; Dll1; DLL1_HUMAN; Drosophila Delta homolog 1; H-Delta-1; OTTHUMP00000017690
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell culture supernates, serum, plasma (heparin, EDTA), urine and human milk
Detection Range	78pg/ml-5000pg/ml
Sensitivity	< 10pg/ml
Specificity	Natural and recombinant human DLL1
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Molecular Weight	78,056 Da
OMIM	606582
3D Structure	ModBase 3D Structure for O00548
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
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:** human DLL1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for DLL1 has been precoated onto 96-well plates. Standards(NSO, S22-G540) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for DLL1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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. **Background:** DLL1(DELTA-LIKE 1), also known as DL1 or DELTA1, is a protein that in humans is encoded by the DLL1 gene. 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, and it is also important in cell-to-cell communication. This gene is mapped to chromosome 6q27, near a locus for type I diabetes. Functional analysis suggested that a soluble fusion protein containing the DSL domain of DLL1 and its adjacent 50 N-terminal amino acids increased the viability of hemopoietic cells but inhibited cell death. It has been found that DLL1 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.

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	MBS177309 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the 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 MBS177309 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 Testing Data/Standard Curve (for reference only) of DLL1 elisa kit
Human DLL1 PicoKine ELISA Kit standard curve

ADDITIONAL DETAILS

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

NCBI GI #	118582508
NCBI GeneID	28514
NCBI Accession #	O00548.2
UniProt Primary Accession #	O00548
UniProt Secondary Accession #	Q9NU41; Q9UJV2; B2RAK7
UniProt Related Accession #	O00548
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; H-Delta-1; drosophila Delta homolog 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: Membrane protein, integral; Motility/polarity/chemotaxis; Cell development/differentiation Chromosomal Location of Human Ortholog: 6q27 Cellular Component: integral to plasma membrane; plasma membrane; extracellular region; cytoplasmic vesicle Molecular Function: protein binding; calcium ion binding; Notch binding Biological Process: regulation of cell adhesion; Notch signaling pathway; negative regulation of myeloid cell differentiation; negative regulation of interleukin-10 production; Notch receptor processing; cell fate determination; compartment specification; somite specification; cell-cell signaling; negative regulation of auditory receptor cell differentiation; hemopoiesis; positive regulation of transcription from RNA polymerase II promoter; heart looping; determination of left/right symmetry; cell differentiation; inner ear development; positive regulation of Notch signaling pathway
Research Articles on DLL1	**1.** Synaptojanin-2 binding protein stabilizes the Notch ligands DLL1 and DLL4 and inhibits sprouting angiogenesis.
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