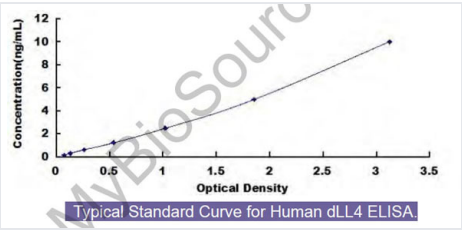
Delta Like Protein 4 (dLL4) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Delta Like Protein 4 (dLL4), ELISA Kit
Full Product Name	Human Delta Like Protein 4 (dLL4) ELISA Kit
Product Gene Name	dLL4 elisa kit
Product Synonym Names	Hdelta2; Drosophila Delta homolog 4
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates or other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of dLL4. No significant cross-reactivity or interference between dLL4 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level dLL4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level dLL4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	74,605 Da
OMIM	AF253468 mRNA
3D Structure	ModBase 3D Structure for Q9NR61
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for dLL4 elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to dLL4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to dLL4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain dLL4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of dLL4 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of dLL4 in human tissue homogenates, cell lysates or other biological fluids.
Other Notes	Small volumes of dLL4 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 dLL4 purchase	MBS452599 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Delta Like Protein 4 (dLL4) 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 dLL4. The ELISA analytical biochemical technique of the MBS452599 kit is based on dLL4 antibody-dLL4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect dLL4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, dLL4. 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 dLL4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for dLL4. It may not necessarily be applicable to this product.

NCBI GI #	9506545
NCBI GeneID	54567
NCBI Accession #	NP_061947.1
UniProt Primary Accession #	Q9NR61
UniProt Secondary Accession #	Q3KP23; Q9NQT9
UniProt Related Accession #	Q9NR61
GenBank Nucleotide #	NM_019074.3
NCBI Official Full Name	delta-like protein 4
NCBI Official Synonym Full Names	delta like canonical Notch ligand 4
NCBI Official Symbol	DLL4
NCBI Official Synonym Symbols	AOS6; hdelta2
UniProt Protein Name	Delta-like protein 4
UniProt Synonym Protein Names	Drosophila Delta homolog 4; Delta4
Protein Family	Delta-like protein
UniProt Gene Name	DLL4
UniProt Synonym Gene Names	Delta4
NCBI Protein Information	delta-like protein 4
NCBI Summary for dLL4	This gene is a homolog of the Drosophila delta gene. The delta gene family encodes Notch ligands that are characterized by a DSL domain, EGF repeats, and a transmembrane domain. [provided by RefSeq, Jul 2008]
UniProt Comments for dLL4	Involved in the Notch signaling pathway as Notch ligand (PubMed:11134954). Activates NOTCH1 and NOTCH4. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting (PubMed:20616313). Essential for retinal progenitor proliferation. Required for suppressing rod fates in late retinal progenitors as well as for proper generation of other retinal cell types (). During spinal cord neurogenesis, inhibits V2a interneuron fate (PubMed:17728344).
Research Articles on dLL4	**1.** Cyclic AMP Response Element Binding Protein Mediates Pathological Retinal Neovascularization via Modulating DLL4-NOTCH1 Signaling

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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