

Human Delta-Like Protein 1, DLL1 ELISA Kit | DLL1 elisa kit

Human Delta-Like Protein 1, DLL1 Primacu ELISA Kit

CATALOG #
AAA124212

REACTIVITY
Human

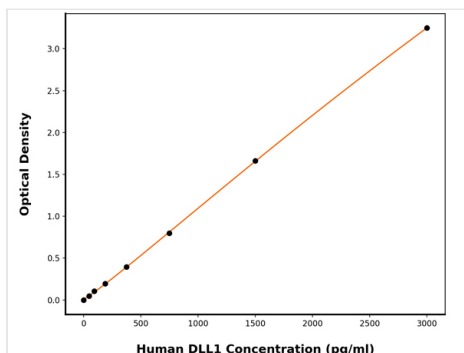
PRODUCT SYNONYMS

Delta-Like Protein 1; DLL1; Human Delta-Like Protein 1; DLL1 Primacu ELISA Kit; Delta-like protein 1; DLL1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernates
Detection Range	46.88-3000pg/mL
Sensitivity	13.28pg/mL
Standard Solution	30ng/mL
Assay Time	3.5h
Preparation and Storage	Store at 2-8 degree C

IMAGES



Standard Curve (Sample)

Typical Testing Data/Standard Curve (for reference only)

ADDITIONAL INFORMATION

Related Product Information for DLL1 elisa kit	Delta-like protein 1(DLL1), also known as Delta1, a single-pass type I membrane protein which contains one DSL domain and eight EGF-like domains, acts as a ligand for Notch receptors, and positively regulates T-cell development. DLL1 is proteolytically processed in a similar manner to the Notch receptor, and it has been speculated to participate in bidirectional signaling. The proteolytic processing of DLL1 helps achieve an asymmetry in Notch signaling in initially equivalent myogenic cells and helps sustain the balance between differentiation and self-renewal. Interactions between DLL1 and Notch in trans activate the Signal transduction, whereas DLL1 binding to Notch in cis inhibits Notch signaling. DLL1 undergoes proteolytic processing in its extracellular domain by ADAM10. It had been demonstrated that DLL1 represents a substrate for several other members of the ADAM family. In co-transfected cells, DLL1 is constitutively cleaved by ADAM12, and the N-terminal fragment of DLL1 is released to medium. ADAM12-mediated cleavage of DLL1 is cell density-dependent, takes place in cis orientation, and does not require the presence of the cytoplasmic domain of ADAM12. Full-length DLL1, but not its N- or C-terminal proteolytic fragment, co-immunoprecipitates with ADAM12. By using a Notch reporter construct, we show that DLL1 processing by ADAM12 increases Notch signaling in a cell-autonomous manner. Furthermore, ADAM9 and ADAM17 have the ability to process DLL1. In contrast, ADAM15 does not cleave DLL1, although the two proteins still co-immunoprecipitate with each other. During fetal development, DLL1 is an essential Notch ligand in the vascular endothelium of large arteries to activate Notch1 and maintain arterial identity. DLL1-Notch signaling was required for VEGF receptor expression in fetal arteries.
Product Categories/Family for DLL1 elisa kit	Primacu ELISA Kit; Developmental biology; Epigenetics and nuclear signaling; Neuroscience; Stem cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	110735443
NCBI GeneID	28514
NCBI Accession #	NP_005609.3
NCBI GenBank Nucleotide #	NM_005618.3
UniProt Accession #	O00548; Q9NU41; Q9UJV2; B2RAK7
Molecular Weight	78,056 Da
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
NCBI Protein Information	delta-like protein 1; H-Delta-1; drosophila Delta homolog 1
UniProt Protein Name	Delta-like protein 1
UniProt Gene Name	DLL1
UniProt Synonym Gene Names	Delta1; H-Delta-1
UniProt Entry Name	DLL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/delta-like-protein-1-dll1/124212>