

Human CellExp sDLL-4, Human recombinant protein
Delta-like protein 4; Drosophila Delta homolog 4
Catalog # PBV10769r**Specification****Human CellExp sDLL-4, Human recombinant protein - Product info**

Primary Accession [O9NR61](#)
Calculated MW 54.3 kDa kDa

Human CellExp sDLL-4, Human recombinant protein - Additional Info

Gene ID 54567
Gene Symbol DLL-4
Other Names
Delta-like protein 4; Drosophila Delta homolog 4

Gene Source Human
Source HEK 293 cells
Assay&Purity SDS-PAGE; ≥95%
Assay2&Purity2 HPLC;
Recombinant Yes
Sequence SGVFQLQLQE FINERGVLAS GRPCEPGCRT
FFRVCLKHFQ AVVSPGPCTF GTVSTPVLGT
NSFAVRDDSS GGRNPLQLP FNFTWPGTFS
LIEAWHAPG DDLRPEALPP DALISKIAIQ
GSLAVGQNWL LDEQTSTLTR LRYSYRVICS
DNYYGDNCSR LCKKRNDHFG HYVCQPDGNL
SCLPGWTGEY CQQPICLSGC HEQNGYCCKP
AECLCRPGWQ GRLCNECIPH NGRHGTCTST
PWQCTCDEGW GGLFCDQDLN YCTHHSPCKN
GATCSNSGQR SYTCTCRPGY TGVDCELELS
ECDSNPCRNG GSCKDQEDGY HCLCPPGYYG
LHCEHSTLSC ADSPCFNGGS CRERNQGANY
ACECPPNFTG SNCEKKVDRC TSNPCANGGQ
CLNRGPSRMC RCRPGFTGTY CELHVSDCAR
NPCAHGGTCH DLENGLMCTC PAGFSGRRCE
VRTSIDACAS SPCFNRTCY TDLSTDTFVC
NCPYGFVGSR CEFPVGLP

Target/Specificity
sDLL-4

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 1X PBS, pH 7.5.

Human CellExp sDLL-4, Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp sDLL-4, Human recombinant protein - Images**Human CellExp sDLL-4, Human recombinant protein - Background**

Human sDLL4 comprises the extracellular signaling domain of DLL, a member of a structurally-related family of single-pass type I trans-membrane proteins that serve as ligands for Notch receptors. DLL4 functions to specifically activate the Notch-1 and Notch-4 receptors. The Notch signaling pathway regulates endothelial-cell differentiation, proliferation and apoptosis, and is essential for the development, maintenance and remodeling of the vascular system. Targeted deletion of the DLL4 gene in mice resulted in severe vascular defects and death before birth. Up-regulation of DLL4 expression has been implicated in the vascular development of certain tumors. Recombinant human sDLL4 is a 54.3 kDa glycoprotein containing 498 amino-acid residues.

Human CellExp sDLL-4, Human recombinant protein - References

Shutter J.R., et al. *Genes Dev.* 14:1313-1318(2000).
Sakano S., et al. Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
Yoneya T., et al. *J. Biochem.* 129:27-34(2001).
Clark H.F., et al. *Genome Res.* 13:2265-2270(2003).
Zhang Z., et al. *Protein Sci.* 13:2819-2824(2004).