

**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  
LIIEAWHAPG DDLRPEALPP DALISKIAIQ  
GSLAVGQNWL LDEQTSTLTR LRSYRVICS  
DNYYGDNCSR LCKKRNDHFG HYVCQPDGNL  
SCLPGWTGEY CQQPICLSGC HEQNGYCSKP  
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).