

## Delta-like protein 4/DLL4 Protein, Human (HEK293)

Cat. No.:	HY-P72972
Synonyms:	Delta-like protein 4; Delta4; DLL4
Species:	Human
Source:	HEK293
Accession:	Q9NR61 (S27-P524)
Gene ID:	54567
Molecular Weight:	55-70 kDa

### PROPERTIES

#### AA Sequence

SGV FQLQLQE	FIN ERGVLAS	GRPCEPGCRT	FFRVCLKHFQ
AVVSPGPCTF	GTVSTPVLGT	NSFAVRDDSS	GGGRNPLQLP
FNFTWPGTFS	LIIEAWHAPG	DDL RPEALPP	DALISKIAIQ
GSLAVGQNL	LDEQTSTLTR	LRYSYRVICS	DNYYGDNCSR
LCKKRNDHFG	HYVCQPDGNL	SCLPGWTGEY	CQQPICLSGC
HEQNGYCSKP	AEC LCRPGWQ	GRLCNECIPH	NGCRHGT CST
PWQCTCDEGW	GGLFCDQDLN	YCTHHSPCKN	GATCSNSGQR
SYTCTCRPGY	TGVDCELELS	ECDSNPCRNG	GSCKDQEDGY
HCLCPPGYYG	LHCEHSTLSC	ADSPCFNGGS	CRERNQGANY
ACECPNFTG	SNCEKKVDR	TSNPCANGGQ	CLNRGPSRMC
RCRPGFTGT	CELHVSDCAR	NPCA HGGTCH	DLENGLMCTC
PAGFSGRRC	VRTSIDACAS	SPCFNRATCY	TDLSTDTFVC
NCPYGFVGS	CEFPVGLP		

**Biological Activity** Immobilized Human DLL4, No Tag at 0.5 µg/mL (100 µl/well) on the plate. Dose response curve for Anti-DLL4 Antibody, hFc Tag with the EC<sub>50</sub> of ≤8.8 ng/mL determined by ELISA.

**Appearance** Lyophilized powder

**Formulation** Lyophilized from 0.22 µm filtered solution in PBS, 200 mM Arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O.

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

Delta-like protein 4 (DLL4) is a key participant in the Notch signaling pathway, acting as a Notch ligand with functional implications. It specifically activates NOTCH1 and NOTCH4, contributing to the intricate cellular communication within this signaling cascade. Beyond its role in Notch signaling, DLL4 emerges as a crucial regulator of angiogenesis, exerting a negative influence on endothelial cell proliferation, migration, and angiogenic sprouting. The protein's indispensability extends to retinal progenitor proliferation, where it plays a vital role in suppressing rod fates in late retinal progenitors and ensuring the proper generation of diverse retinal cell types. Additionally, during spinal cord neurogenesis, DLL4 inhibits V2a interneuron fate, adding another layer to its multifaceted functions. The molecular interactions involving DLL4 include its engagement with NOTCH4 and NOTCH1, facilitated by specific domains in DLL4 and NOTCH1, respectively.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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