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

Cat. No.:	HY-P701309
Synonyms:	Delta-like protein 4; Delta4; DLL4
Species:	Human
Source:	HEK293
Accession:	Q9NR61 (S27-P524)
Gene ID:	54567
Molecular Weight:	62-68 kDa

PROPERTIES

Biological Activity	Immobilized Human DLL4, His Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Anti-DLL4 Antibody, hFc Tag with the EC_{50} of 24.1ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 200mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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.

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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