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DLL4

Catalog # PVGS1824

Specification

DLL4 - Product Information

Primary Accession Q9NR61

Species
Human

Sequence
Ser27-Pro524

Purity
> 95% as determined by Bis-Tris PAGE
 > 95% as determined by HPLC

Endotoxin Level
Less than 1EU per μg by the LAL method.

Biological Activity
Immobilized DLL4 hFc Chimera, Human (Cat.No.: Z03955) at 1 μg/ml (100 μl/Well) on the plate can bind Biotinylated Anti-DLL4 Antibody, hFc Tag

Expression System
HEK293

Theoretical Molecular Weight
81.1 kDa

Formulation **Lyophilized from a 0.22 μm filtered solution in PBS, (pH 7.4).**

Reconstitution
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH₂O more than 100 μg/ml.

Storage & Stability
Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

DLL4 - Additional Information

Gene ID 54567

Other Names
Delta-like protein 4, Drosophila Delta homolog 4, Delta4, DLL4

Target Background
Delta-like protein 4 (DLL4) is a type I transmembrane protein with a DSL domain and eight tandem EGF repeats. DLL4 functions as a Notch ligand and activates NOTCH1 and NOTCH4 in the Notch

signaling pathway. It is involved in vascular development and homeostasis. DLL4 is involved in vascular development and homeostasis. It is highly expressed in some cancers, such as bladder, breast cancers.

DLL4 - Protein Information

Name DLL4

Function
Involved in the Notch signaling pathway as Notch ligand (PubMed:11134954). Activates NOTCH1 and NOTCH4. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting (PubMed:20616313). Essential for retinal progenitor proliferation. Required for suppressing rod fates in late retinal progenitors as well as for proper generation of other retinal cell types (By similarity). During spinal cord neurogenesis, inhibits V2a interneuron fate (PubMed:17728344).

Cellular Location
Cell membrane; Single-pass type I membrane protein

Tissue Location
Expressed in vascular endothelium.

DLL4 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DLL4 - Images