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DLL4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9964a

Specification

DLL4 Antibody (C-term) - Product Information

Application	**WB, FC, IHC-P,E**
Primary Accession	Q9NR61
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**625-652**

DLL4 Antibody (C-term) - Additional Information

Gene ID 54567

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

Target/Specificity
This DLL4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 625-652 amino acids from the C-terminal region of human DLL4.

Dilution
WB~~1:1000
FC~~1:10~50
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DLL4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DLL4 Antibody (C-term) - 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

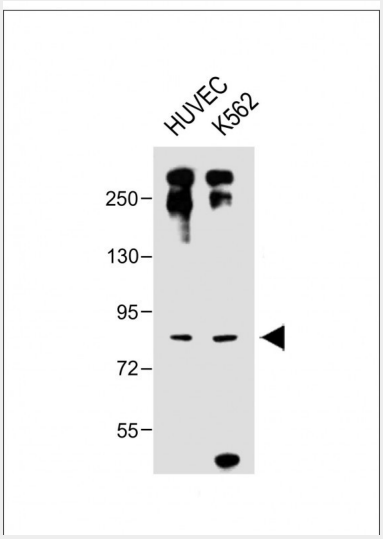
Tissue Location
Expressed in vascular endothelium.

DLL4 Antibody (C-term) - 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 Antibody (C-term) - Images



All lanes : Anti-DLL4_HUMAN at 1:1000 dilution Lane 1: HUVEC whole cell lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 75 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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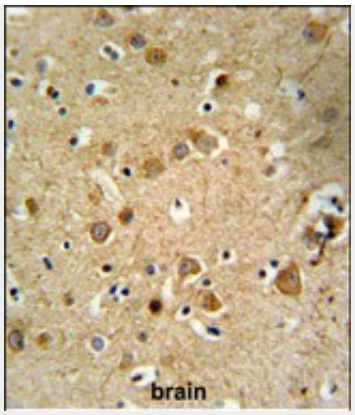
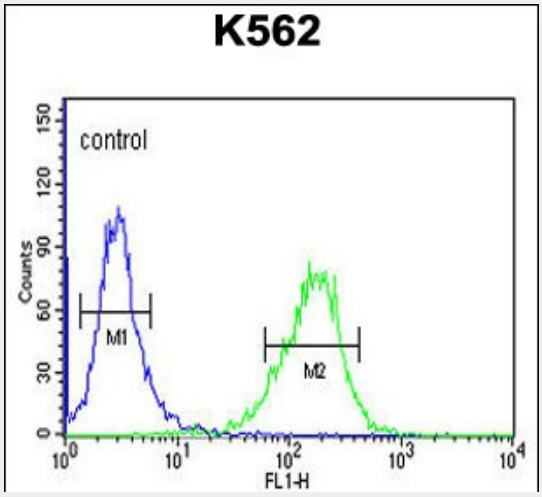


DLL4 Antibody (C-term) (Cat. #AP9964a) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DLL4 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



DLL4 Antibody (C-term) (Cat. #AP9964a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

DLL4 Antibody (C-term) - Background

DLL4 is a homolog of the Drosophila delta gene. The delta gene family encodes Notch ligands that are characterized by a DSL domain, EGF repeats, and a transmembrane domain.

DLL4 Antibody (C-term) - References

Emuss, V., et al. PLoS Pathog. 5 (10), E1000616 (2009)
Ferrari-Toninelli, G., et al. Dev Neurobiol 69(6):378-391(2009)
Indraccolo, S., et al. Cancer Res. 69(4):1314-1323(2009)
Segarra, M., et al. Blood 112(5):1904-1911(2008)

DLL4 Antibody (C-term) - Citations

- Jagged1 and DLL4 expressions in benign and malignant pancreatic lesions and their clinicopathological significance.