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DLL4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9964a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9NR61
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23696
Calculated MW	74605
Antigen Region	625-652

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 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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.

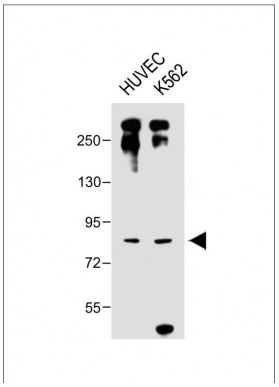
Background

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.

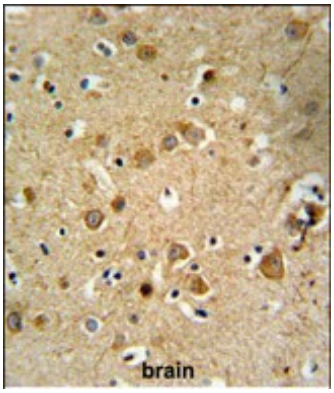
References

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)

Images

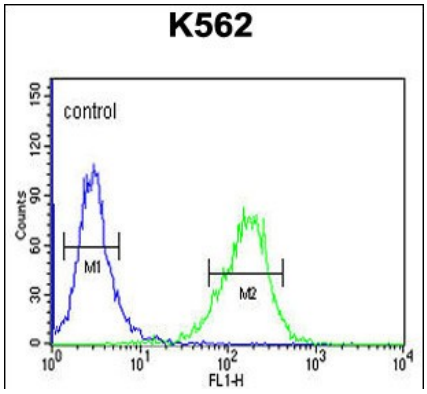


All lanes : Anti-DLL4_HUMAN at 1:1000 dilution Lane 1: HUVEC whole cell lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 75 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.



Citations

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