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DLL4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1736a

Product Information

Application	WB, IHC, E
Primary Accession	Q9NR61
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4A11F8
Isotype	IgG1
Calculated MW	74605
Description	This gene 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.
Immunogen	Purified recombinant fragment of human DLL4 (AA: 313-439) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	54567
Other Names	Delta-like protein 4, Drosophila Delta homolog 4, Delta4, DLL4
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DLL4 Antibody 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.

References

1.Am J Pathol. 2010 Apr;176(4):2019-28. 2.Blood. 2010 Sep 30;116(13):2385-94.

Images

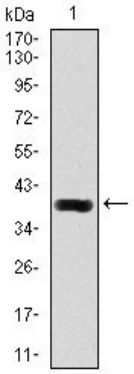

Figure 1: Western blot analysis using DLL4 mAb against human DLL4 recombinant protein. (Expected MW is 39.2 kDa)

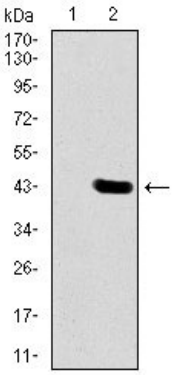

Figure 2: Western blot analysis using DLL4 mAb against HEK293 (1) and DLL4 (AA: 313-439)-hIgGFc transfected HEK293 (2) cell lysate.

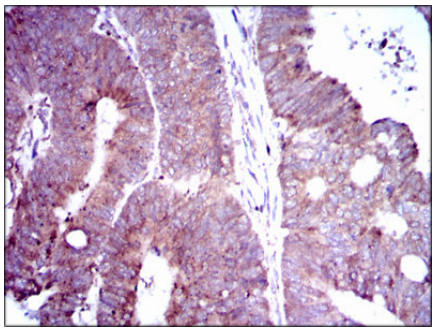

Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using DLL4 mouse mAb with DAB staining.