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# DLL4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1736a

## Product Information

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|---|---|
| **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

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|---|---|
| **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

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| **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

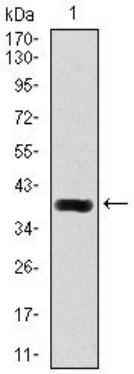



Figure 1: Western blot analysis using DLL4 mAb against human DLL4 recombinant protein. (Expected MW is 39.2 kDa)

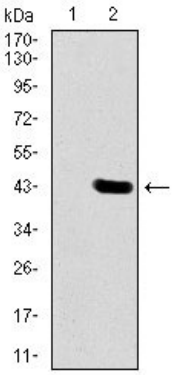



Figure 2: Western blot analysis using DLL4 mAb against HEK293 (1) and DLL4 (AA: 313-439)-hIgGFc transfected HEK293 (2) cell lysate.

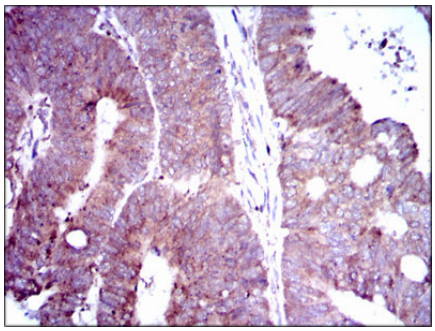


Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using DLL4 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.