

# DLL4 polyclonal antibody

Catalog # PAB10200

Size 100 ug

## Applications

### Western Blot (Tissue lysate)



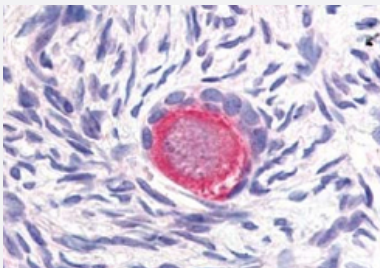
Western blot using DLL4 polyclonal antibody (Cat # PAB10200) shows detection of a 74 KDa band corresponding to DLL4 in a lysate prepared from mouse pancreatic tissue.

Approximately 20 ug of lysate was run on SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of DLL4 polyclonal antibody.

Detection occurred using a 1 : 5,000 dilution of HRP-labeled Goat anti-Rabbit IgG for 1 hour at room temperature.

A chemiluminescence system was used for signal detection using a 3 min exposure time.

### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Immunohistochemistry of DLL4 polyclonal antibody (Cat # PAB10200) was used at 20 ug/mL to detect DLL4 in a variety of tissues including colon, liver, skeletal muscle, ovary, pancreas, prostate, testes, thymus, tonsil and uterus. In contrast to reported findings, no staining was observed in vascular tissue. This image shows DLL4 staining of human ovary.

Tissue was formalin-fixed and paraffin embedded.

Personal Communication, Tina Roush, Life Span Biosciences, Seattle, WA.

## Specification

|                     |                                                                      |
|---------------------|----------------------------------------------------------------------|
| Product Description | Rabbit polyclonal antibody raised against synthetic peptide of DLL4. |
| Immunogen           | A synthetic peptide corresponding to internal region of human DLL4.  |
| Host                | Rabbit                                                               |

|                         |                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Chimpanzee, Human, Mouse, Rat                                                                                                                                     |
| Specificity             | This affinity purified antibody is directed against human DELTA-4.                                                                                                |
| Form                    | Liquid                                                                                                                                                            |
| Quality Control Testing | Antibody Reactive Against Synthetic Peptide.                                                                                                                      |
| Recommend Usage         | ELISA (1:5000-1:25000)<br>Western Blot (1:500-1:2500)<br>Immunohistochemistry (10-20 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer          | In 20 mM KH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, pH 7.2 (0.01% sodium azide)                                                                               |
| Storage Instruction     | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                            |
| Note                    | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                            |

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This image shows DLL4 staining of human ovary.

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — DLL4

Entrez GeneID

[54567](#)

|                    |                                                                                                                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Accession# | <a href="#">Q9NR61:NP_061947</a>                                                                                                                                                                        |
| Gene Name          | DLL4                                                                                                                                                                                                    |
| Gene Alias         | MGC126344, hdelta2                                                                                                                                                                                      |
| Gene Description   | delta-like 4 (Drosophila)                                                                                                                                                                               |
| Omim ID            | <a href="#">605185</a>                                                                                                                                                                                  |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                               |
| Gene Summary       | This gene is a homolog of the Drosophila delta gene. The delta gene family encodes Notch ligand s that are characterized by a DSL domain, EGF repeats, and a transmembrane domain. [provide d by RefSeq |
| Other Designations | delta 4 delta ligand 4 delta-like 4 homolog delta-like 4 protein notch ligand DLL4 notch ligand delta -2                                                                                                |

## Publication Reference

- [Expression pattern and function of Notch2 in different subtypes of first trimester cytotrophoblast.](#)

Plessl K, Haider S, Fiala C, Pollheimer J, Knofler M.

Placenta 2015 Apr; 36(4):365.

Application: IF, Human, Placental, Decidual

- [Membrane-bound delta-4 notch ligand reduces the proliferative activity of primitive human hematopoietic CD34+CD38low cells while maintaining their LTC-IC potential.](#)

Lauret E, Catelain C, Titeux M, Poirault S, Dando JS, Dorsch M, Villeval JL, Groseil A, Vainchenker W, Sainteny F, Bennaceur-Griscelli A.

Leukemia 2004 Apr; 18(4):788.

Application: Flow Cyt, Mouse, S17 cells

- [Notch ligands, Delta-1 and Delta-4 suppress the self-renewal capacity and long-term growth of two myeloblastic leukemia cell lines.](#)

Tohda S, Murata-Ohsawa M, Sakano S, Nara N.

International Journal of Oncology 2003 May; 22(5):1073.

- [Regulation of Notch1 and Dll4 by vascular endothelial growth factor in arterial endothelial cells: implications for modulating arteriogenesis and angiogenesis.](#)

Liu ZJ, Shirakawa T, Li Y, Soma A, Oka M, Dotto GP, Fairman RM, Velazquez OC, Herlyn M.

Molecular and Cellular Biology 2003 Jan; 23(1):14.

## Pathway

- [Notch signaling pathway](#)