

## Product datasheet for **AP05661PU-N**

### **DLL4 Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ELISA, IHC, WB
<b>Recommended Dilution:</b>	Immunohistochemistry on paraffin sections: 5 - 15µg/ml. ELISA: 1:3000 - 1:15000. Western Blot: 1:300 - 1:1500; detects a band of approximately 74kDa in pancreatic cell lysates.
<b>Reactivity:</b>	Human, Monkey, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthetic peptide corresponding to the internal region of human DLL4.
<b>Specificity:</b>	This antibody detects human Delta-like ligand 4 (DLL4), also known as Delta-4.
<b>Formulation:</b>	Phosphate buffered saline pH7.2 containing 0.09% Sodium Azide (NaN <sub>3</sub> ) State: Purified State: Liquid purified IgG
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	delta like canonical Notch ligand 4
<b>Database Link:</b>	<a href="#">Entrez Gene 54485 Mouse</a> <a href="#">Entrez Gene 311332 Rat</a> <a href="#">Entrez Gene 54567 Human</a> <a href="#">Q9NR61</a>



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**Background:**

DLL4 is a homologue of the Drosophila delta protein, and functions as a transmembrane bound ligand to the Notch receptor Notch1.

DLL4 is expressed in the vasculature and plays a critical role in vascular development. It is induced by vascular endothelial growth factor (VEGF), as a negative feedback regulator to regulate angiogenic sprouting and promote the formation of a differentiated vascular network.

DLL4 has been found to be strongly expressed in tumour vessels of clear-cell renal tumours and bladder cancer, and inhibition of DLL4 results in increased vascular proliferation but defective maturation. This in turn leads to a decrease in tumour growth, with no apparent toxicity.

**Synonyms:**

Delta 4, Drosophila Delta homolog 4

**Protein Families:**

Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transmembrane

**Protein Pathways:**

Notch signaling pathway