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## **DLL4 ELISA Kit**



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Quantity:	1 kit
Target:	DLL4
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

### **Product Details**

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen	
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Characteristics:	Synonyms: Delta 4, delta 4 precursor, Delta ligand 4, delta ligand 4 precursor, Delta like 4, Delta like 4 homolog. Delta like 4 protein. Delta like protein 4. Delta-like 4 (Drosophila). Delta-like	

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Background: Delta like ligand 4 is a protein that in humans is encoded by the DLL4 gene. It is mapped to 15q15.1. This gene is a homolog of the Drosophila delta gene. DLL4 is a transmembrane ligand for Notch receptors that shows restricted expression to endothelial cells

(ECs), in particular to arteries and capillaries, and is involved in vascular development, and it also appeared to be a major trigger of Notch receptor activities previously implicated in arterial and vascular development. Mouse DLL4 could activate mouse Notch1 and mouse Notch4. DLL4 acts as a negative regulator of tumor angiogenesis, its blockade results in the striking uncoupling of tumor growth from vessel density, presenting a novel therapeutic approach even for tumors resistant to anti-VEGF therapies. In addition to it, this gene also plays an important role in promoting Th17 effector activity during mycobacterial challenge.

Gene Name: DLL4

Production: Natural and recombinant mouse DLL4. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: S28-P525

## **Target Details**

Target:	DLL4
Alternative Name:	DLL4 (DLL4 Products)
Gene ID:	54485
NCBI Accession:	NP_062327
UniProt:	Q9JI71
Pathways:	Notch Signaling

Application Details	
Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot
	0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	312pg/mL, 156pg/mL mouse DLL4 standard solutions into the precoated 96-well plate. Add
	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. It is recommended that each mouse DLL4 standard solution and each sample
	be measured in duplicate.
	Blood Product Anticoagulant: Heparin Sodium
	ELISA Dilution: 156pg/mL-10,000pg/mL
Sample Volume:	100 μL
Plate:	Pre-coated

# **Application Details**

Restrictions:	For Research Use only	
Handling		
Storage:	RT,4 °C,-20 °C	
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.	