

Mouse DLL4/Delta-like 4 ELISA Kit | DLL4 elisa kit

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CATALOG #
AAA258487

REACTIVITY
Mouse

PRODUCT SYNONYMS

DLL4/Delta-like 4; Mouse DLL4/Delta-like 4 ELISA Kit; DLL4 ELISA Kit; Mouse; delta-like 4 (Drosophila); Delta4 ELISA Kit; DLL4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	For the quantitative determination of Mouse DLL4/Delta-like 4 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	46.88-3000pg/mL
Sensitivity	11.9pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

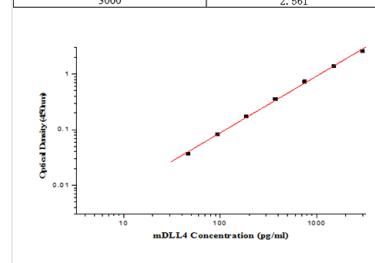
IMAGES

Recombinant human	
DLL1	DLL4
Recombinant mouse	
NOTCH1	DLL1

Application Data

This assay recognizes both recombinant and natural Mouse DLL4. The factors listed above were prepared at 100ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
46.88	0.037
93.75	0.082
187.5	0.174
375	0.357
750	0.731
1500	1.402
3000	2.561



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for DLL4 elisa kit	This DLL4 ELISA Kit, Mouse is an enzyme-linked immunosorbent assay for the quantitative measurement of Mouse DLL4 protein in Serum. It contains recombinant Mouse DLL4, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Delta-like protein 4 (DLL4, Delta4), a type I membrane-bound Notch ligand, is one of five known Notch ligands in mammals and interacts predominantly with Notch 1, which has a key role in vascular development. Recent studies yield substantial insights into the role of DLL4 in angiogenesis. DLL4 is induced by vascular endothelial growth factor (VEGF) and acts downstream of VEGF as a 'brake' on VEGF-induced vessel growth, forming an autoregulatory negative feedback loop inactivating VEGF. DLL4 is downstream of VEGF signaling and its activation triggers a negative feedback that restrains the effects of VEGF. Attenuation of DLL4/Notch signaling results in chaotic vascular network with excessive branching and sprouting. DLL4 is widely distributed in tissues other than vessels including many malignancies. Furthermore, the molecule is internalized on binding its receptor and often transported to the nucleus. In pathological conditions, such as cancer, DLL4 is up-regulated strongly in the tumour vasculature. Blockade of DLL4-mediated Notch signaling strikingly increases nonproductive angiogenesis, but significantly inhibits tumor growth in preclinical mouse models. In preclinical studies, blocking of DLL4/Notch signaling is associated with a paradoxical increase in tumor vessel density, yet causes marked growth inhibition due to functionally defective vasculature. Thus, DLL4 blockade holds promise as an additional strategy for angiogenesis-based cancer therapy.
References	Yan M, et al. (2007) Delta-like 4/Notch signaling and its therapeutic implications. Clin Cancer Res. 13(24): 7243-6. Sainson RC, et al. (2007) Anti-Dll4 therapy: can we block tumour growth by increasing angiogenesis. Trends Mol Med. 13(9): 389-95. Martinez JC, et al. (2009) Nuclear and membrane expression of the angiogenesis regulator delta-like ligand 4 (DLL4) in normal and malignant human tissues. Histopathology. 54(5): 598-606. Li JL, et al. (2010) Targeting DLL4 in tumors shows preclinical activity but potentially significant toxicity. Future Oncol. 6(7): 1099-103.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/dll4-delta-like-4/258487>