

DLL4

Mouse Anti-Human DLL4 (Clone B-D59) mAb, Azide Free

Catalog No.	CDM523A	Quantity:	200 µg
	CDM523B		500 µg

Alternate Names: Delta-like protein 4, Drosophila Delta homolog 4, Delta4

Description: Delta-like protein 4 (DLL4), 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. 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. 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 tumor 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.

UniProt ID: Q9NR61

Gene ID: 54567

Hybridoma: Myeloma X63/AG.8653 x Balb/c lymph node cells

Specificity: Recognizes native and recombinant human DLL4

Isotype: Mouse IgG1 kappa

Immunogen: Recombinant human DLL4

Clone: B-D59

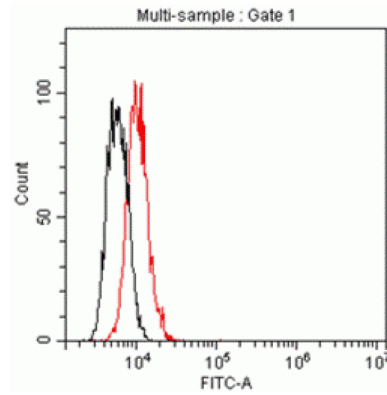
Concentration: 1.0 mg/ml

Formulation: Sterile-filtered PBS, carrier and preservative free.

Applications: Flow cytometry

Storage & Stability: Stable at 2-8°C for 12 months. **DO NOT FREEZE.**





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