Rabbit Anti-Mouse Delta-Like 4 Monoclonal Antibody

Cat. No. CAB11525RM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Mouse Delta-Like 4
Species	Mouse
Source	Rabbit
Antigen Description	Mouse Delta-like protein 4 (DLL4) is a type I membrane-bound Notch ligand characterized by an extracellular region containing several EGF-like domains and a DSL domain required for receptor binding, and is suggested to play a key role in vascular development and tumor angiogenesis. The Notch pathway is an evolutionary conserved intercellular signaling pathway involved in numerous biological processes including cell fate determination, cellular differentiation, proliferation, survival, and apoptosis. In mammalian cells, five Notch ligands (Jagged1, 2, DLL1, 3, 4) and four Notch receptors (Notch1-4) have been identified, and ligand-receptor interactions results in proteolysis and translocation of the Notch intracellular domain. As a ligand for Notch1 and Notch4, DLL4 is selectively expressed in the developing endothelium and in some tumor endothelium, and is induced by vascular endothelial growth factor (VEGF)-A and hypoxia. In recent studies, it has been revealed that this DLL4 inhibition may paradoxically lead to increased angiogenesis but poor tumor growth because of the non-functional. neovascularization, and constitutive expression of DLL4 may leads to a lethal lymphoproliferative disease. Accordingly, this may provide a new therapeutic approach for certain carcinomas.
Specificity	Mouse DLL4 / Delta-4. No cross-reactivity with human DLL4 / Delta-4 and human cell

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	lysate (293 cell line) in WB and ELISA
Immunogen	Recombinant mouse DLL4 protein
Isotype	Rabbit IgG
Clone	A007
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 μg/mL with the appropriate secondary reagents to detect mouse DLL4 in WB. Using a DAB detection system, the detection limit for mouse DLL4 is approximately 0.25 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommendedELISA: This antibody can be used at 0.1 - 0.2 μg/mL with the appropriate secondary reagents to detect mouse DLL4. The detection limit for mouse DLL4 is approximately 0.00245 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant mouse DLL4
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

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Gene Name	Dll4 delta-like 4 (Drosophila) [Mus musculus]
Official Symbol	Dll4
Synonyms	DLL4; delta-like 4 (Drosophila); delta-like protein 4; drosophila Delta homolog 4; Delta4;
Gene ID	54485
mRNA Refseq	NM_019454
Protein Refseq	NP_062327
Pathway	Delta-Notch Signaling Pathway, organism-specific biosystem; Notch Signaling Pathway, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem; Notch signaling pathway, conserved biosystem; Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem; Signaling by NOTCH2, organism-specific biosystem;
Function	Notch binding; calcium ion binding; protein binding;

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