Mouse Delta-like protein 4 (DLL4) ELISA Kit

Catalog No: #EK10591

Package Size: #EK10591-1 48T #EK10591-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Delta-like protein 4 (DLL4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	MGC126344; hdelta2; delta 4|delta ligand 4|delta-like 4 homolog|delta-like 4 protein|notch ligand DLL4|notch ligand delta-2
Accession No.	Q9JI71
Uniprot	Q9JI71
GeneID	54485;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate DLL4 in samples. An antibody specific for DLL4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDLL4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DLL4 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of DLL4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:DLL4 is a homolog of the Drosophila delta gene. The delta gene family encodes Notch ligands that are characterized by a DSL domain, EGF repeats, and a transmembrane domain.

The predicted 685-amino acid DLL4 protein exhibits all of the hallmarks of the Delta family of Notch ligands. It has an extracellular region containing 8 EGF-like repeats and a DSL domain involved in Notch binding, as well as a transmembrane domain and a cytoplasmic tail that lacks catalytic motifs. Human DLL4 shares 87% amino acid sequence identity with mouse Dll4. Northern blot analysis of mouse tissues detected highest Dll4 expression in lung, followed by heart, kidney, skeletal muscle, and brain; Dll4 expression was barely detectable in spleen and testis.

Note: This product is for in vitro research use only