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Anti-DLL3 Antibody

Catalog # ABO11216

Product Information

Application	WB
Primary Accession	Q9NYJ7
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Delta-like protein 3(DLL3) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	10683
Other Names	Delta-like protein 3, Drosophila Delta homolog 3, Delta3, DLL3
Calculated MW	64618
Application Details	Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Membrane ; Single-pass type I membrane protein .
Source	Eukaryota
Protein Name	Delta-like protein 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human DLL3(599-618aa RAGQRQHLLFPYPSSILSVK).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 DSL domain.

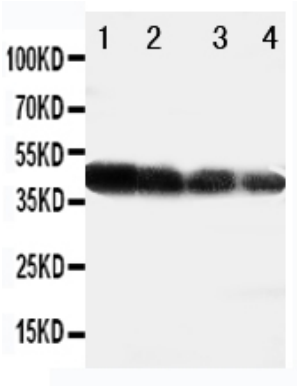
Protein Information

Name	DLL3
Function	Inhibits primary neurogenesis. May be required to divert neurons along a specific differentiation pathway. Plays a role in the formation of somite boundaries during segmentation of the paraxial mesoderm (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein

Background

DLL3(DELTA-LIKE 3) also known as DELTA, DROSOPHILA, HOMOLOG OF, is a protein which in humans is encoded by the DLL3 gene. This gene encodes a member of the delta protein ligand family. This family functions as Notch ligands that are characterized by a DSL domain, EGF repeats, and a transmembrane domain. Mutation in the mouse delta-like 3 gene(Dll3), which is homologous to the Notch-ligand delta in Drosophila, results in the mouse 'pudgy' phenotype. The human DLL3 gene was identified within a critical interval, mapped in 2 consanguineous Arab-Israeli and Pakistani SCDO1 pedigrees, of 7.8 cM at 19q13.1-q13.3 between D19S570 and D19S908(Bulman et al., 2000). Dunwoodie et al.(1997) presented results suggesting that mouse Dll3 may complement the function of other delta homologs during early pattern formation in the mouse embryo. In humans, the fact that mutations in genes required for oscillation, such as DLL3, result in abnormal segmentation of the vertebral column suggests that the segmentation clock also acts during human embryonic development. This residue is highly conserved in Delta proteins from Drosophila to humans, and the substitution of a charged polar for a nonpolar residue may disrupt the conformation of the DLL3 protein.

Images



Anti-DLL3 antibody, ABO11216, Western blottingAll lanes: Anti DLL3 (ABO11216) at 0.5ug/mlLane 1: Recombinant Human DLL3 Protein 10ngLane 2: Recombinant Human DLL3 Protein 5ngLane 3: Recombinant Human DLL3 Protein 2.5ngLane 4: Recombinant Human DLL3 Protein 1.25ngPredicted bind size: 41KDObserved bind size: 41KD