

Hamster DELTA-LIKE PROTEIN 1 Monoclonal Antibody | anti-DLL1 antibody

HAMSTER ANTI MOUSE DELTA-LIKE PROTEIN 1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA49796	Hamster	Human (Weak), Rat	Functional Assay, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

DELTA-LIKE PROTEIN 1; Monoclonal Antibody; HAMSTER ANTI MOUSE DELTA-LIKE PROTEIN 1; anti-DLL1 antibody

PRODUCT SPECIFICATIONS

Host	Hamster
Reactivity	Human (Weak), Rat
Clonality	Monoclonal
Isotype	IgG
Clone Number	HMD1-5
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	723
Applicable Applications for anti-DLL1 antibody	FA (Functional Assay), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Perservative Stabilisers	0.09% Sodium Azide (NaN ₃) Preparation
Immunogen	DLL1-expressing CHO cells. Histology Positive Control Tissue
Target Species	Mouse
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.

IMAGES



Application Data

Mouse Delta like protein 1 transfected cells stained with Hamster anti Mouse Delta like protein 1:RPE



Application Data

Mouse Delta like protein 1 transfected cells stained with Hamster anti Mouse Delta like protein 1



Application Data

Paraffin embedded human spleen stained with Hamster anti Mouse Delta-Like protein 1 followed by Goat anti Hamster IgG:HRP

ADDITIONAL INFORMATION

Related Product Information for anti-DLL1 antibody	Hamster anti Mouse Delta-Like Protein 1 antibody, clone HMD1-5 specifically recognizes Delta-like protein 1 (DLL1), one of the five major ligands of the Notch signaling pathway, which is activated through the binding of specific ligands to the Notch receptors Notch 1-4. The Notch signaling pathway is an evolutionarily conserved pathway in multi-cellular organisms, which is vital for cell-cell communication, important during fundamental developmental and physiological processes, including regulation of cell fate decisions during neuronal, cardiac and endocrine development, stem cell hematopoiesis, thymic T-cell development, and both tumor progression and suppression. Ligation of Notch receptors by their specific ligands, Jagged1 (CD339), Jagged2, Delta-like protein 1 (DLL1), DLL3 and DLL4, on physically adjacent signal receiving cells, induces proteolysis of the receptors by ADAM-family metalloproteases and the gamma-secretase complex, within the transmembrane domain, releasing the Notch intracellular domain (NICD) to translocate to the nucleus. Subsequent signal transduction then occurs through either the CSL-NICD-Mastermind complex cascade (canonical pathway), or NF-kappaB-NICD and CSL-NICD-Delta complex signaling cascades (non-canonical pathway). The canonical pathway inhibits the differentiation of stem cells or progenitor cells, whilst the non-canonical pathway promotes differentiation. DLL1 is widely expressed, and acts as a mediator of cell fate decisions during hematopoiesis, and may play a role in cell-to-cell communication in mammalian embryos. DLL1 plays an important role in B and T cell differentiation, in embryonic somite formation and patterning, and associates with the scaffolding protein MAGI1 at adherens junctions on neuronal processes. Signaling through DLL1 and Notch 2 has been implicated in the development of marginal zone B cells (MZB). Hamster anti Mouse Delta-Like Protein 1 antibody, clone HMD1-
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NCBI AND UNIPROT INFORMATION

NCBI GI #	110735443
NCBI GeneID	28514
NCBI Accession #	NP_005609.3
NCBI GenBank Nucleotide #	NM_005618.3
Molecular Weight	27,355 Da
NCBI Official Full Name	delta-like protein 1
NCBI Official Synonym Full Names	delta-like 1 (Drosophila)
NCBI Official Symbol	DLL1
NCBI Official Synonym Symbols	DL1; Delta; DELTA1
NCBI Protein Information	delta-like protein 1; H-Delta-1; drosophila Delta homolog 1
UniProt Protein Name	Delta-like protein 1
UniProt Gene Name	DLL1
UniProt Synonym Gene Names	Delta1; H-Delta-1
UniProt Entry Name	DLL1_HUMAN

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.