

Hamster DELTA-LIKE PROTEIN 4 Monoclonal Antibody | anti-DII4 antibody

HAMSTER ANTI MOUSE DELTA-LIKE PROTEIN 4

CATALOG #	HOST	APPLICATIONS
AAA49798	Hamster	Immunohistochemistry, Functional Assay, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

DELTA-LIKE PROTEIN 4; Monoclonal Antibody; HAMSTER ANTI MOUSE DELTA-LIKE PROTEIN 4; anti-DII4 antibody

PRODUCT SPECIFICATIONS

Host	Hamster
Clonality	Monoclonal
Isotype	IgG
Clone Number	HMD4-2
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	686
Applicable Applications for anti-DII4 antibody	IHC (Immunohistochemistry), FA (Functional Assay), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Perservative Stabilisers	0.09% Sodium Azide (NaN3) Preparation
Immunogen	Recombinant mouse DLL4. 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 4 transfected cells stained with Hamster anti Mouse Delta Like Protein 4:RPE (AAA49798PE)



Application Data

Mouse Delta like protein 4 transfected cells stained with Hamster anti Mouse Delta Like Protein 4

ADDITIONAL INFORMATION

Related Product Information for anti-Dll4 antibody	Hamster anti Mouse Delta-Like Protein 4 antibody, clone HMD4-2 specifically recognizes mouse Delta-like protein 4 (DLL4), one of the five major ligands of the Notch signalling pathway, which is activated through the binding of specific ligands to the Notch receptors Notch 1-4. The Notch signalling 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 haematopoiesis, thymic T-cell development, and both tumour progression and suppression. Ligation of Notch receptors by their specific ligands, Jagged1 (CD339), Jagged2, Delta like-1 (DLL1), DLL3 and DLL4, on physically adjacent signal receiving cells, induces proteolysis of the receptors by ADAM-family metalloproteases and 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-Deltex complex signalling cascades (non-canonical pathway). The canonical pathway inhibits the differentiation of stem cells or progenitor cells, whilst the non-canonical pathway promotes differentiation. DLL4 is expressed by vascular endothelium, and plays a vital role in embryonic vascular development. DLL4 signalling has been shown to play a role in the angiogenesis of clear-cell renal tumours, and pancreatic, bladder and colonic cancer. Studies have shown that DLL4 expression in endothelium cells, can be up-regulated by vascular endothelial growth factor (VEGF) and basic-FGF, and by HIF1 alpha, and that blockade of DLL4 inhibits tumour growth by promoting non-productive angiogenesis. Hamster anti Mouse Delta-Like Protein 4 ant
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NCBI AND UNIPROT INFORMATION

NCBI GI #	244799228
NCBI GeneID	54485
NCBI Accession #	NP_062327.2
NCBI GenBank Nucleotide #	NM_019454.3
UniProt Accession #	Q9JI71; Q9DBU9; Q9JHZ7
Molecular Weight	74,991 Da
NCBI Official Full Name	delta-like protein 4
NCBI Official Synonym Full Names	delta-like 4 (Drosophila)
NCBI Official Symbol	Dll4
NCBI Official Synonym Symbols	Delta4
NCBI Protein Information	delta-like protein 4; drosophila Delta homolog 4
UniProt Protein Name	Delta-like protein 4
UniProt Gene Name	Dll4
UniProt Synonym Gene Names	Delta4
UniProt Entry Name	DLL4_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/delta-like-protein-4-antibody-clone-hmd4-2-immunohistochemistry-functional-assay-flow-cytometry-immunohistochemistry-elisa/49798>