

Hamster anti-Rat NOTCH 2 Monoclonal Antibody | anti-NOTCH 2 antibody

HAMSTER ANTI MOUSE NOTCH 2

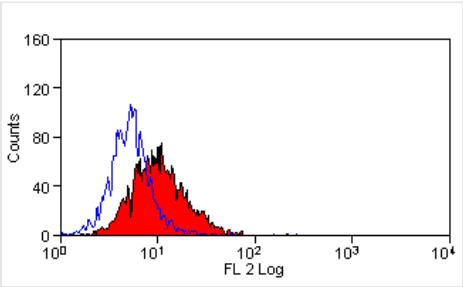
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA49795	Hamster	Rat	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

NOTCH 2; Monoclonal Antibody; HAMSTER ANTI MOUSE NOTCH 2; anti-NOTCH 2 antibody

PRODUCT SPECIFICATIONS

Host	Hamster
Reactivity	Rat
Clonality	Monoclonal
Isotype	IgG
Clone Number	HMN2-35
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	2473
Applicable Applications for anti-NOTCH 2 antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Reactivity Note	N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories , peer reviewed publications or personal communications from the originators.
Immunogen	Mouse Notch 2-Fc fusion protein.
Fusion Partners	Spleen cells from immunised Armenian hamsters were fused with cells of the P3U1 myeloma cell line.
Buffer Solution	Phosphate buffered saline
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.



Application Data
Mouse Notch 2 transfected cells stained with Hamster anti Mouse Notch 2

ADDITIONAL INFORMATION

Related Product Information for anti-NOTCH 2 antibody	Hamster anti Mouse Notch 2 antibody, clone HMN2-35 specifically recognizes Notch 2, one of the four major transmembrane receptors (Notch 1-4) of the Notch signaling pathway, which is activated through binding to DSL domain-containing membrane-bound specific ligands. 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-Deltex 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. Signaling through Notch 2 has been implicated in the development of marginal zone B cells (MZB), the sensitization of endothelial cells to apoptosis, and the regulation of the expression of CD23 in B-cell lymphocytic leukemia (B-CLL). Studies have also shown a correlation between a decrease in Notch 2 expression and an increase in grade of human breast cancer. Hamster anti Mouse Notch 2 antibody, clone HMN2-35 has been shown to cross-react with rat mast cell line RBL-2H3 and Y3 myeloma cells, in flow cytometry.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	134288853
NCBI GeneID	18129
NCBI Accession #	NP_035058.2
NCBI GenBank Nucleotide #	NM_010928.2
Molecular Weight	242,663 Da
NCBI Official Full Name	neurogenic locus notch homolog protein 2
NCBI Official Synonym Full Names	notch 2
NCBI Official Symbol	Notch2
NCBI Official Synonym Symbols	N2; AI853703
NCBI Protein Information	neurogenic locus notch homolog protein 2; Motch B; Notch gene homolog 2
UniProt Protein Name	Neurogenic locus notch homolog protein 2
UniProt Gene Name	Notch2
UniProt Synonym Gene Names	Notch 2
UniProt Entry Name	NOTC2_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/notch-2-antibody-clone-hmn2-35-flow-cytometry-elisa/49795>