

Rabbit NOTCH4 Polyclonal Antibody | anti-NOTCH4 antibody

NOTCH4 Antibody

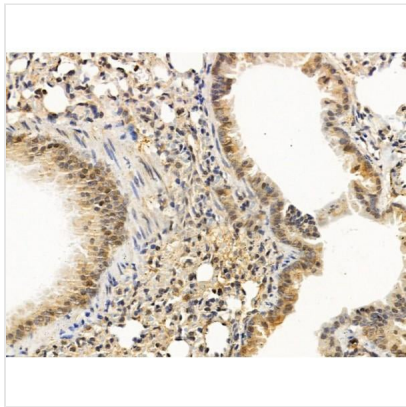
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329120	Rabbit	Human, Mouse, Rat Predicted Reactivity: Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)	ELISA

PRODUCT SYNONYMS

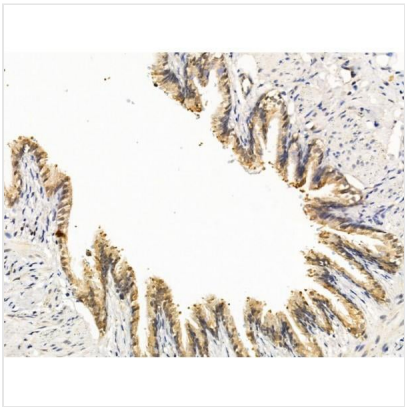
NOTCH4; Polyclonal Antibody; NOTCH4 Antibody; FLJ16302; hNotch 4; hNotch4; INT3; Neurogenic locus notch homolog protein 4; NOTC4_HUMAN; Notch 4; Notch 4 intracellular domain; Notch homolog 4; NOTCH3; Notch4; NOTCH4 protein; anti-NOTCH4 antibody

PRODUCT SPECIFICATIONS

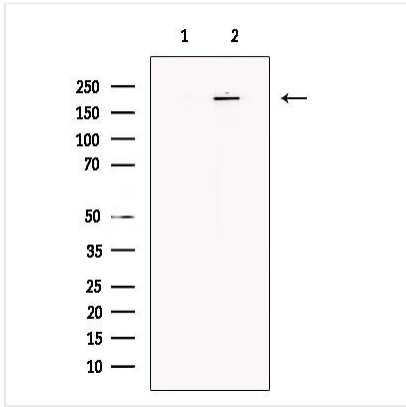
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	NOTCH4 Antibody detects endogenous levels of total NOTCH4.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	2003
Applicable Applications for anti-NOTCH4 antibody	ELISA
Immunogen	A synthesized peptide derived from human NOTCH4, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemisry)
AAA329120 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)
AAA329120 at 1/100 staining Rat lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells, using NOTCH4 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NOTCH4 antibody	Function: Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs. May regulate branching morphogenesis in the developing vascular system (By similarity). Post Translational Modifications: Synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase in the trans-Golgi network before it reaches the plasma membrane to yield an active, ligand-accessible form. Cleavage results in a C-terminal fragment N(TM) and a N-terminal fragment N(EC). Following ligand binding, it is cleaved by TNF-alpha converting enzyme (TACE) to yield a membrane-associated intermediate fragment called notch extracellular truncation (NEXT). This fragment is then cleaved by presenilin dependent gamma-secretase to release a notch-derived peptide containing the intracellular domain (NICD) from the membrane (By similarity).Phosphorylated. Subcellular Location: Cell membrane>Single-pass type I membrane protein. Nucleus. Note: Following proteolytical processing NICD is translocated to the nucleus. Tissue Specificity: Highly expressed in the heart, moderately in the lung and placenta and at low levels in the liver, skeletal muscle, kidney, pancreas, spleen, lymph node, thymus, bone marrow and fetal liver. No expression was seen in adult brain or peripheral blood leukocytes. Subunit Structure: Heterodimer of a C-terminal fragment N(TM) and a N-terminal fragment N(EC) which are probably linked by disulfide bonds (By similarity). Interacts with MAML1, MAML2 and MAML3 which act as transcriptional coactivators for NOTCH4. Similarity: Belongs to the NOTCH family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	55770876
NCBI GeneID	4855
NCBI Accession #	NP_004548.3
NCBI GenBank Nucleotide #	NP_004548.3
UniProt Accession #	Q99466
Molecular Weight	Observed Molecular Weight: (Observed)209kD. Predicted Molecular Weight: (Calculated)210kDa.
NCBI Official Full Name	neurogenic locus notch homolog protein 4 preproprotein
NCBI Official Synonym Full Names	notch receptor 4
NCBI Official Symbol	NOTCH4
NCBI Official Synonym Symbols	INT3
NCBI Protein Information	neurogenic locus notch homolog protein 4
UniProt Protein Name	Neurogenic locus notch homolog protein 4
UniProt Gene Name	NOTCH4
UniProt Synonym Gene Names	INT3; Notch 4; hNotch4
UniProt Entry Name	NOTC4_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.