SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Notch 2 antibody

Catalog Number: SL2378R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Notch 2
Immunogen:	KLH conjugated synthetic peptide derived from human Notch2: 1501-1700/2471 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Pig,Rabbit)
Predicted MW.:	262kDa
Subcellular Location:	The nucleus The cell membrane
Background:	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. **Subunit:** Heterodimer of a C-terminal fragment N(TM) and an 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 NOTCH2. Interacts with RELA/p65 (By similarity). **Subcellular Location:** Cell membrane; Single-pass type I membrane protein.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Notch 2 intracellular domain: Nucleus. **Tissue Specificity:** Expressed in the brain, heart, kidney, lung, skeletal muscle and liver. Ubiquitously expressed in the embryo. **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). DISEASE: Defects in NOTCH2 are the cause of Alagille syndrome type 2 (ALGS2) [MIM:610205]. Alagille syndrome is an autosomal dominant multisystem disorder defined clinically by hepatic bile duct paucity and cholestasis in association with cardiac, skeletal, and ophthalmologic manifestations. There are characteristic facial features and less frequent clinical involvement of the renal and vascular systems. **Similarity:** Belongs to the NOTCH family. Contains 6 ANK repeats. Contains 35 EGF-like domains. Contains 3 LNR (Lin/Notch) repeats. **Database links:** **Entrez Gene:** 4853 Human **Entrez Gene:** 18129 Mouse Omim: 600275 Human **SwissProt:** Q04721 Human **SwissProt:** O35516 Mouse **SwissProt:** Q9QW30 Rat **Unigene:** 487360 Human **Unigene:** 485843 Mouse

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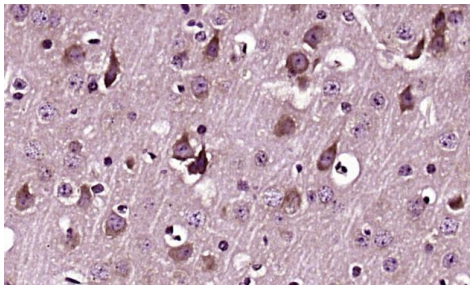
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[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Notch 2) Polyclonal Antibody, Unconjugated (SL2378R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.

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