

Product datasheet for **AP07611SU-N**

NOTCH2 (2396-2409) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA: 1/30000 - 1/90000. Immunofluorescence. Immunohistochemistry on Paraffin Sections: 1/500. Western Blot: 1/400 - 1/2000.
Reactivity:	Human, Canine
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to Amino acid residues 2396-2409 of Human Notch 2. A residue of cysteine was added to the amino terminal end to facilitate coupling.
Specificity:	This antibody recognizes Human NOTCH2 (2396-2409).
Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 State: Serum State: Liquid Sterile filtered Serum Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	notch 2
Database Link:	Entrez Gene 4853 Human Q04721



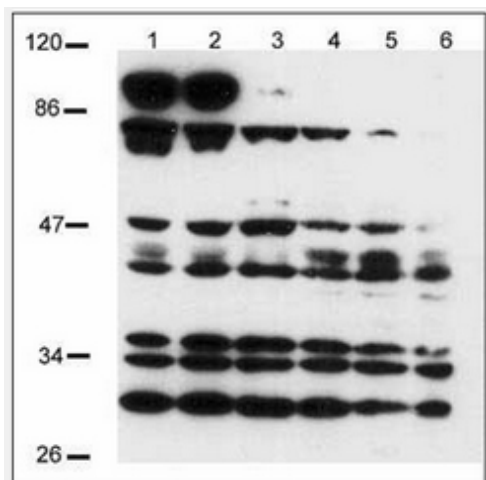
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Background:

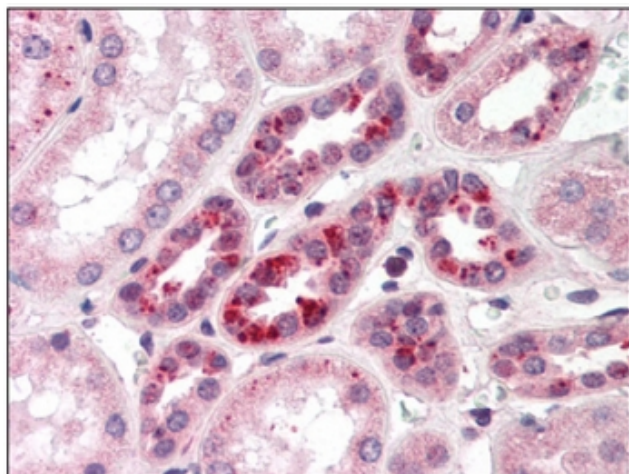
Notch is synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase (S1 cleavage) in the trans-golgi network before it reaches the plasma membrane to yield an active, ligand-accessible form. Cleavage results in a C-terminal fragment N(TM) and a N-terminal fragment N(EC). Following ligand binding, it is cleaved (S2 cleavage) 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 (S3 cleavage) to release the intracellular domain (NICD) from the membrane. Notch 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 RBP-J kappa and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs.

Synonyms:

Notch 2, hN2

Product images:

Western blot using anti-Notch 2 (intra) antibody shows detection of a band at ~110 kD corresponding to active Notch 2 protein (arrowhead). Western Blot analysis was performed for Notch 2 expression using 100 ug of total protein lysate obtained from human mesothelial SV40 cells transfected with a plasmid encoding a constitutively active Notch 2 (intracellular Notch 2). Lanes 1-3 contain lysate 24 h (1), 48 h (2), and 72 h (3) post transfection. Lanes 4-6 are the corresponding control cells (untransfected) taken at similar time points. The band at about 110kD represents active Notch 2. This band is not seen in the control cell. The intracellular domain of Notch 2 has a predicted band size of 110kD, corresponding to this band. Protein cell lysates were run on a 10% SDS-page gel, blotted onto Hybond C membrane, blocked overnight in PBS-Tween 20 supplemented with 5% Non-fat Milk and probed with anti-Notch 2 at a 1/400 dilution. ECL was used as visualization method.



Formalin-Fixed Paraffin-Embedded Human Kidney stained with NOTCH2 antibody