

Product datasheet for **TA319403**

NOTCH2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1:30,000 - 1:90,000, WB: 1:400 - 1:2,000, IHC: 1:200-1:800
Reactivity:	Human, Dog, Chimpanzee
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide corresponding to amino acid residues 2396-2409 of human Notch 2 (the total protein is 2471 aa). A residue of cysteine was added to the amino terminal end to facilitate coupling.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	notch 2
Database Link:	NP_077719 Entrez Gene 483148 Dog Entrez Gene 4853 Human Q04721
Synonyms:	AGS2; HJCYS; hN2



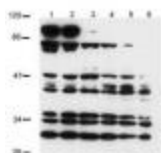
[View online »](#)

Note: Anti Notch 2 Antibody recognizes Notch 2 that 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.

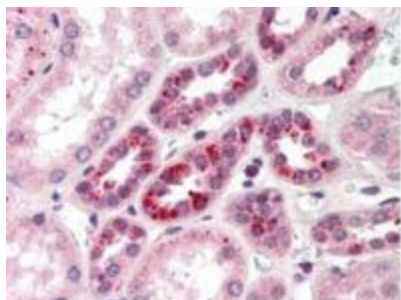
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Dorso-ventral axis formation, Notch signaling pathway

Product images:



WB using anti-Notch 2 (intra) antibody shows detection of a band at ~110 kDa corresponding to active Notch 2 protein (arrowhead). WB analysis was performed for Notch 2 expression using human mesothelial SV40 cells lysate obtained from transfected with a plasmid encoding a constitutively active Notch 2 (intra cellular 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). Anti-Notch 2 was used at 1:400.



Anti-Notch 2 antibody was diluted 1:500 to detect NOTCH 2 in human kidney tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.