

## 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:        | <a href="#">NP_077719</a><br><a href="#">Entrez Gene 483148 Dog</a> <a href="#">Entrez Gene 4853 Human</a><br><a href="#">Q04721</a>  |
| Synonyms:             | AGS2; HJCYS; hN2  |



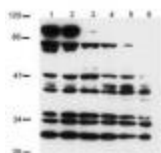
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**Note:** Anti Notch 2 Antibody recognizes Notch 2 that is synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase (S1 cleavage) in the trans-golgi network before it reaches the plasma 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.

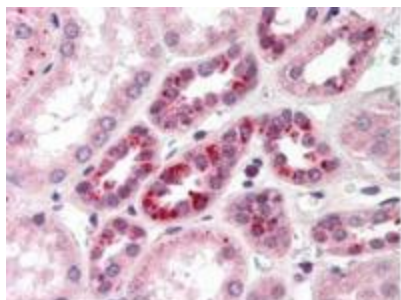
**Protein Families:** Druggable Genome, Transmembrane

**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.