

## Product datasheet for **TA322182**

### NOTCH2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: HepG2 cell lysate IHC: 40-200 Positive control: Human colorectal cancer Predicted cell location: Cytoplasm and Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from C'13aa amino acids of human notch 2
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
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> <a href="#">Entrez Gene 18129 MouseEntrez Gene 29492 RatEntrez Gene 4853 Human Q04721</a>



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**Background:**

This gene encodes a member of the Notch family. Members of this Type 1 transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats; and an intracellular domain consisting of multiple; different domain types. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In *Drosophila*; notch interaction with its cell-bound ligands (delta; serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human; but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cleaved in the trans-Golgi network; and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands; and may play a role in vascular; renal and hepatic development. Two transcript variants encoding different isoforms have been found for this gene.

**Synonyms:**

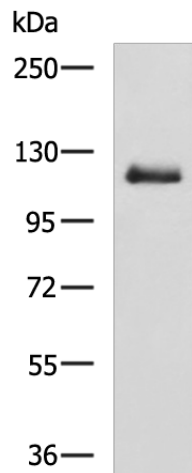
AGS2; HJCYS; hN2

**Protein Families:**

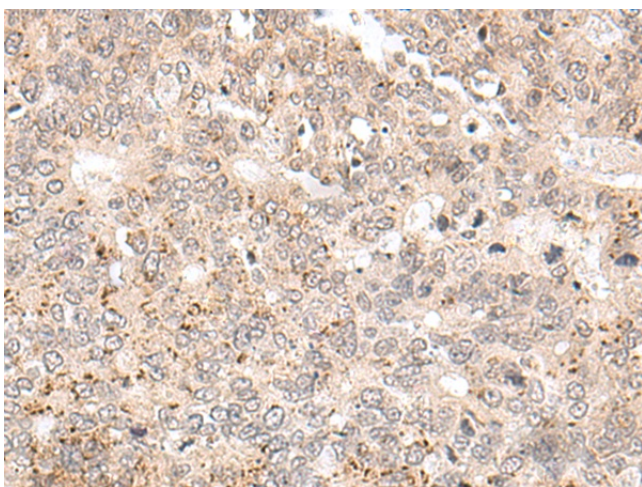
Druggable Genome, Transmembrane

**Protein Pathways:**

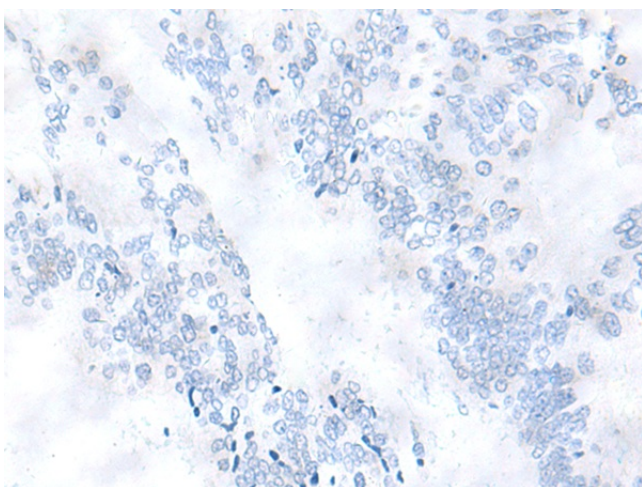
Dorso-ventral axis formation, Notch signaling pathway

**Product images:**

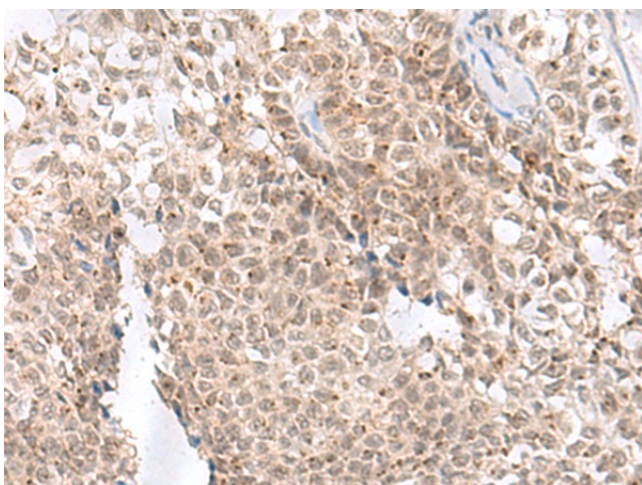
Gel: 6%SDS-PAGE  
Lysate: 40 µg  
Lane: HepG2 cell lysate  
Primary antibody: TA322182 (NOTCH2 Antibody) at dilution 1/400  
Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution  
Exposure time: 2 minutes



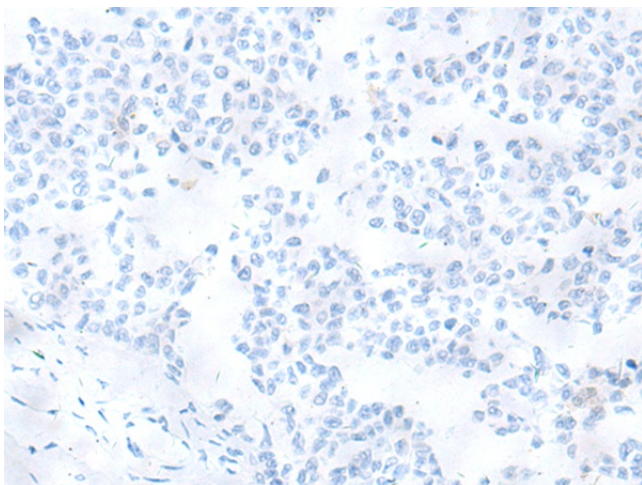
Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using TA322182 (NOTCH2 Antibody) at dilution 1/40 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using TA322182 (NOTCH2 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA322182 (NOTCH2 Antibody) at dilution 1/40 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA322182 (NOTCH2 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: x200)