



# Anti-NOTCH2 polyclonal antibody (DPAB-DC2044)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Antigen Description

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.

### Immunogen

A synthetic peptide corresponding to human NOTCH2. The sequence is C-ERTPSHSGHLQGEH

### Source/Host

Goat

### Species Reactivity

Human

### Purification

Antigen affinity purification

### Conjugate

Unconjugated

### Applications

ELISA,

### Format

Liquid

<b>Concentration</b>	0.5 mg/mL
<b>Size</b>	100 µg
<b>Buffer</b>	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">NOTCH2 notch 2 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	NOTCH2
<b>Synonyms</b>	NOTCH2; notch 2; hN2; AGS2; HJCYS; neurogenic locus notch homolog protein 2; Notch homolog 2;
<b>Entrez Gene ID</b>	<a href="#">4853</a>
<b>Protein Refseq</b>	<a href="#">NP_001186930</a>
<b>UniProt ID</b>	<a href="#">Q04721</a>
<b>Chromosome Location</b>	1p13-p11
<b>Pathway</b>	Delta-Notch Signaling Pathway; Gene Expression; MicroRNAs in cancer; NOTCH2 intracellular domain regulates transcription
<b>Function</b>	calcium ion binding; ligand-activated RNA polymerase II transcription factor binding transcription factor activity; protein binding; receptor activity