



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

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

GENE INFORMATION

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