



NOTCH2 blocking peptide (DAG-P1810)

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. [provided by RefSeq, Jan 2011]

Specificity	Expressed in the brain, heart, kidney, lung, skeletal muscle and liver. Ubiquitously expressed in the embryo.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the NOTCH family. Contains 6 ANK repeats. Contains 35 EGF-like domains. Contains 3 LNR (Lin/Notch) repeats.
Format	Liquid
Buffer	PBS with 0.02% sodium azide
Preservative	0.02% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

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
mRNA Refseq	NM_001200001.1
Protein Refseq	NP_001186930.1
UniProt ID	Q04721
Chromosome Location	1p13-p11
Pathway	Delta-Notch Signaling Pathway, organism-specific biosystem; Dorso-ventral axis formation, organism-specific biosystem; Dorso-ventral axis formation, conserved biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; MicroRNAs in cancer, organism-specific biosystem; MicroRNAs in cancer, conserved biosystem; NOTCH2 Activation and Transmission of Signal to the Nucleus, organism-specific biosystem; NOTCH2 intracellular domain regulates tran
Function	calcium ion binding; ligand-activated RNA polymerase II transcription factor binding transcription factor activity; protein binding; receptor activity;