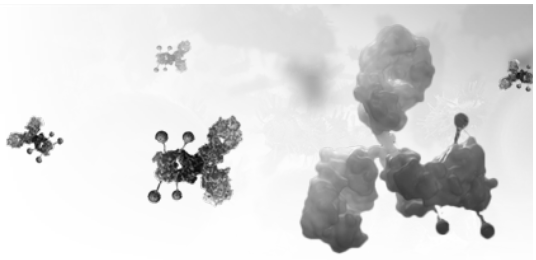

Human NOTCH1 peptide (DAG-P0883)

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 Drosophilia, 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 multiple roles during development. [provided by RefSeq, Jul 2008]
Specificity	In fetal tissues most abundant in spleen, brain stem and lung. Also present in most adult tissues where it is found mainly in lymphoid tissues.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the NOTCH family.Contains 5 ANK repeats.Contains 36 EGF-like domains.Contains 3 LNR (Lin/Notch) repeats.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

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Gene Name	NOTCH1 notch 1 [Homo sapiens (human)]
Official Symbol	NOTCH1
Synonyms	NOTCH1; notch 1; hN1; TAN1; neurogenic locus notch homolog protein 1; Notch homolog 1, translocation-associated; translocation-associated notch protein TAN-1;
Entrez Gene ID	4851
mRNA Refseq	NM_017617.3
Protein Refseq	NP_060087.3
UniProt ID	P46531
Chromosome Location	9q34.3
Pathway	Activated NOTCH1 Transmits Signal to the Nucleus, organism-specific biosystem; Cardiac Progenitor Differentiation, organism-specific biosystem; Constitutive Signaling by NOTCH1 HD Domain Mutants, organism-specific biosystem; Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants, organism-specific biosystem; Constitutive Signaling by NOTCH1 PEST Domain Mutants, organism-specific biosystem; Constitutive Signaling by NOTCH1 t(7;9)(NOTCH1:M1580_K2555) Translocation Mutant, organism-specific biosys
Function	RNA polymerase II transcription factor binding transcription factor activity involved in positive regulation of transcription; calcium ion binding; chromatin DNA binding; core promoter binding; enzyme binding; enzyme inhibitor activity; protein binding; r

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