



# Human NOTCH3 peptide (DAG-P1813)

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

## PRODUCT INFORMATION

|                              |   |
|------------------------------|---|
| <b>Antigen Description</b>   | This gene encodes the third discovered human homologue of the <i>Drosophila melanogaster</i> type I membrane protein notch. In <i>Drosophila</i> , notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signalling pathway that plays a key role in neural development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remains to be determined. Mutations in NOTCH3 have been identified as the underlying cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). [provided by RefSeq, Jul 2008] |
| <b>Specificity</b>           | Ubiquitously expressed in fetal and adult tissues.  |
| <b>Conjugate</b>             | Unconjugated  |
| <b>Sequence Similarities</b> | Belongs to the NOTCH family. Contains 5 ANK repeats. Contains 34 EGF-like domains. Contains 3 LNR (Lin/Notch) repeats.  |
| <b>Format</b>                | Liquid  |
| <b>Preservative</b>          | None  |
| <b>Storage</b>               | 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

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | <a href="#">NOTCH3 notch 3 [ Homo sapiens (human) ]</a>   |
| <b>Official Symbol</b> | NOTCH3  |
| <b>Synonyms</b>        | NOTCH3; notch 3; IMF2; CASIL; CADASIL; neurogenic locus notch homolog protein 3; Notch homolog 3; |

|                            |  |
|----------------------------|--|
| <b>Entrez Gene ID</b>      | <a href="#">4854</a>   |
| <b>mRNA Refseq</b>         | <a href="#">NM_000435.2</a>  |
| <b>Protein Refseq</b>      | <a href="#">NP_000426.2</a>  |
| <b>UniProt ID</b>          | Q9UM47   |
| <b>Chromosome Location</b> | 19p13.2-p13.1  |
| <b>Pathway</b>             | 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; Neural Crest Differentiation, organism-specific biosystem; Notch Signaling Pathway, organism-specific biosystem; Notch signaling pat |
| <b>Function</b>            | calcium ion binding; enzyme binding; protein binding;  |