

## Recombinant Human NOTCH3 Protein, His tagged

**Cat. No.** NOTCH3-001H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human NOTCH3 Protein with His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 40-467 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | This gene encodes the third discovered human homologue of the Drosophila melanogaster type I membrane protein notch. In Drosophila, 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). |
| <b>Molecular Mass</b>   | 46 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AASequence</b>       | APPCLDGSPCANGGRCTQLPSREAACLCPPGWVGERCQLEDPCHSGPCAGRGVC<br>QSSVVAGTARFSCRCPRGFRGPDCSLPDPCLSSPCAHGARCSVGPDGRFLCSCPP<br>GYQGRSCRSVDVDECRVGEPCRHHGGTCLNTPGSFRCQCPAGYTGPLCENPAVPCA<br>PSPCRNNGGTQRQSGDLTYDCACLPGFEGQNCENVNDDCPGHRCLNNGGTCVDGVN<br>TYNCQCPPEWTGQFCTEDVDECQLQPNACHNGGTCFNTLGGHSCVCVNGWTGE<br>SCSQNIDDCATAVCFHGHATCHDRVASFYCACPMGKTGLLCHLDDACVSNPCHEDAI                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | CDTNPVNGRAICTCPPGFTGGACDQDVDECSIGANPCEHLGRCVNTQGSFLCQCG<br>RGYTGPRCETDVNECLSGPCRNQATCLDRIGQFTCICMAGFTGTYCEHHHHHHHH                                                  |
| <b>Endotoxin</b>      | < 1 EU/μg by LAL                                                                                                                                                    |
| <b>Purity</b>         | > 90% by SDS-PAGE                                                                                                                                                   |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Sterile PBS, pH7.4                                                                                                                                                  |
| <b>Concentration</b>  | 1 mg/mL by BCA                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NOTCH3 notch receptor 3 [ Homo sapiens (human) ]                                                                                                                  |
| <b>Official Symbol</b> | NOTCH3                                                                                                                                                            |
| <b>Synonyms</b>        | NOTCH3; notch 3; CADASIL, Notch (Drosophila) homolog 3 , Notch homolog 3 (Drosophila); neurogenic locus notch homolog protein 3; CASIL; Notch homolog 3; CADASIL; |
| <b>Gene ID</b>         | 4854                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_000435                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_000426                                                                                                                                                         |
| <b>MIM</b>             | 600276                                                                                                                                                            |

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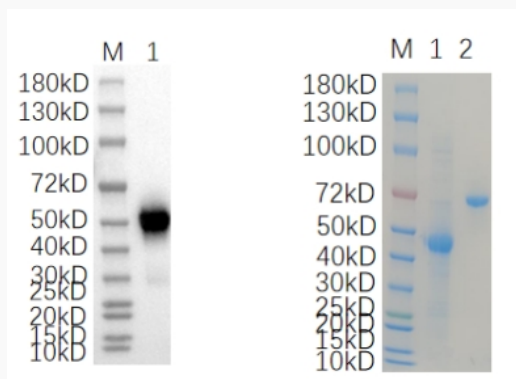
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UniProt ID

Q9UM47

SDS-PAGE



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified NOTCH3. 1. NOTCH3: 1  $\mu$ g 2. BSA: 1  $\mu$ g

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