

## Recombinant Mouse Netrin 1 Protein, Flag tagged

**Cat. No.** Ntn1-017H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The extracellular domain of mouse netrin-1 (aa 27-604) fused at the C-terminus to a FLAG-tag was produced in HEK 293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 27-604 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Predicted to be an extracellular matrix structural constituent. Involved in chemorepulsion of axon and regulation of synapse assembly. Acts upstream of or within several processes, including generation of neurons; inner ear morphogenesis; and regulation of neurogenesis. Located in basement membrane and cytoplasm. Is active in glutamatergic synapse. Is expressed in several structures, including alimentary system; central nervous system; integumental system; lung; and sensory organ. Human ortholog(s) of this gene implicated in congenital mirror movement disorder. Orthologous to human NTN1 (netrin 1). |
| <b>Tag</b>              | C-Flag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | ~80 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | < 0.10 EU/μg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | ≥90% (SDS-PAGE), Purified by multi-step chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>    | Binds to human and mouse UNC5B.                                                                                                                                                                                                                                                  |
| <b>Applications</b>   | ELISA: binds to UNC5B.                                                                                                                                                                                                                                                           |
| <b>Stability</b>      | Stable for at least 6 months after receipt when stored at -20 centigrade.                                                                                                                                                                                                        |
| <b>Reconstitution</b> | Reconstitute with 100 µL sterile distilled water. Resuspended protein should be used immediately upon reconstitution to avoid loss in activity due to non-specific binding to the vial. Further dilutions should be made with medium containing 5% fetal calf serum or 0.5% BSA. |
| <b>Storage</b>        | Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -20 centigrade.<br>Long Term Storage: -20 centigrade                                                                                                                                               |
| <b>Concentration</b>  | 0.1 mg/mL after reconstitution.                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b> | Lyophilized. Contains PBS.                                                                                                                                                                                                                                                       |
| <b>Shipping</b>       | Blue Ice                                                                                                                                                                                                                                                                         |

## GENE INFORMATION

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Gene Name</b>       | Ntn1 netrin 1 [ Mus musculus (house mouse) ]           |
| <b>Official Symbol</b> | Ntn1                                                   |
| <b>Synonyms</b>        | NTN1; netrin 1; netrin-1; AI561871; BC019633; Netrin-1 |
| <b>Gene ID</b>         | 18208                                                  |

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|----------------|-----------|
| mRNA Refseq    | NM_008744 |
| Protein Refseq | NP_032770 |
| UniProt ID     | O09118    |

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