

## Recombinant Human NRP1 Protein, Fc-tagged

**Cat. No.** NRP1-397H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human NRP1 protein with Fc tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 923                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>This gene encodes one of two neuropilins, which contain specific protein domains which allow them to participate in several different types of signaling pathways that control cell migration. Neuropilins contain a large N-terminal extracellular domain, made up of complement-binding, coagulation factor V/VIII, and meprin domains. These proteins also contains a short membrane-spanning domain and a small cytoplasmic domain. Neuropilins bind many ligands and various types of co-receptors; they affect cell survival, migration, and attraction. Some of the ligands and co-receptors bound by neuropilins are vascular endothelial growth factor (VEGF) and semaphorin family members. This protein has also been determined to act as a co-receptor for SARS-CoV-2 (which causes COVID-19) to infect host cells.</p> |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 96.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MERGLPLLCAVLALVLAPAGAFRNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLI<br>QAPDPYQRIMINFNPFDLEDKDYVEVFDGENENGHFRGKFCGKIAPPPVVS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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SGPFLFIKFVSDYETHGAGFSIRYEIFKRGPECSQNYTTPSGVIKSPGFPEKYPNSLE  
 CTYIVFVPMKSEIILEFESFDLEPDSNPPGGMFCRYDRLEIWDGFPDVGPHIGRYCG  
 QKTPGRIRSSSGILSMVFYTDSAIAKEGFSANYSVLQSSVSEDFKCMEALGMESGEI  
 HSDQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFTAVGT  
 QGAISKETKKKYVVKTYKIDVSSNGEDWITIKEGNKPVLFQGNTNPTDVVAVFPKPL  
 ITRFVRIKPATWETGISMRFEVYGCKITDYPGSGMLGMVSGGLISDSQITSSNQGDRN  
 WMPENIRLVTSRSGWALPPAPHSYINEWLQIDLGEEKIVRGIIIQGGKHRENKVFMRK  
 FKIGYSNNGSDWKMMIMDDSKRKAKSFEGNNNYDTPELRTFPALSTRFIRIYPERATH  
 GGLGLRMELLGCEVEAPTAGPTTPNGNLVDECDDDQANCHSGTGDDFQLTGTTV  
 LATEKPTVIDSTIQSEFPTYGFNCEFGWGSHKTFCHWEHDNHVQLKWSVLTSKTGPI  
 QDHTGDGNFIYSQADENQKGKVARLVSPVVYSQNSAHCMTFWYHMSGSHVGTLR  
 VKLRYQKPEEYDQLVWMAIGHQGDHWKEGRVLLHKSLLYQVIFEGEIGKGNLGGI  
 AVDDISINNHSQEDCAKPADLDKKNPEIKIDETGSTPGYEGEGEEDKNISRKPGNVL  
 KTLDPILITIIAMSALGVLLGAVCGVVLYCACWHNGMSERNLSALENYNFELVDGVKL  
 KKDKLNTQSTYSEA

|                       |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 98%                                                                                                                                                                                                     |
| <b>Applications</b>   | WB; ELISA; FACS; FC                                                                                                                                                                                       |
| <b>Stability</b>      | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).<br>After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use. |
| <b>Storage</b>        | At -20 centigrade.                                                                                                                                                                                        |
| <b>Concentration</b>  | 1 mg/mL                                                                                                                                                                                                   |
| <b>Storage Buffer</b> | PBS (pH 7.4-7.5). Sterile-filtered colorless solution.                                                                                                                                                    |

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**Reconstitution**

Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

|                        |                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NRP1 neuropilin 1 [ Homo sapiens (human) ]                                                                                                                                       |
| <b>Official Symbol</b> | NRP1                                                                                                                                                                             |
| <b>Synonyms</b>        | NRP1; neuropilin 1; neuropilin-1; CD304; NRP; VEGF165R; transmembrane receptor; vascular endothelial cell growth factor 165 receptor; NP1; BDCA4; DKFZp781F1414; DKFZp686A03134; |
| <b>Gene ID</b>         | 8829                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_001024628                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_001019799                                                                                                                                                                     |
| <b>MIM</b>             | 602069                                                                                                                                                                           |
| <b>UniProt ID</b>      | O14786                                                                                                                                                                           |

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