

## Product datasheet for TP511197

### Nrp1 (NM\_008737) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse neuropilin 1 (Nrp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR211197 representing NM_008737 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MERGLPLLCATLALALALAGAFRSDKCGGTIKIENPGYLTSPGYPHSYHPSEKCEWLIQAPEPYQRIMIN  FNPFDLEDRDCKYDYVEIDGENEGGRLWGKFCGKIAPSPVSSGPFLFIKFVSDYETHGAGFSIRYEI  FKRGPECSQNYTAPTGVIKSPGFPEKYPNSLECTYIIFAPKMSEIILEFESFDLEQDSNPPGGMFCRYDR  LEIWDGFPEVPHIGRYCGQKTPGRIRSSGVLSMVFYTDSAIAKEGFSANYSVLQSSISEDFKCMEALG  MESGEIHSDQITASSQYGTNWSVERSRLNYPENGWTPGEDSYKEWIQVDLGLLRFVTAVGTQGAISKETK  KKYYVKTYRVDISSNGEDWISLKEGNKAIIFQGNTNPTDVVLGVFSKPLITRFVRIKPVSWETGISMRFE  VYGCKITDYPCSGMLGMVSGLISDSQITASNQADRNWMPENIRLVTSTRTGWALPPSPHPYTNEWLQVDLG  DEKIVRGVIIQGGKHRENKVFMRKFKIAYSNNGSDWKTIMDDSKRKAASFEGNNNYDTPELRTFSPLSTR  FIRIYPERATHSGLGLRMELLGCEVEAPTAGPTTPNGNPVDECDQANCHSGTGDDFQLTGGTTVLATE  KPTIIDSTIQSEFPTYGFNCFEGWGSHKTFCHWEHDSHAQLRWSVLTSKTPGIQDHTGDGNFIYSQADEN  QKGKVARLVSPVYSQSSAHCMTFWYHMSGSHVGTLRVKLRYQKPEEYDQLVMMVGHQGDHWKEGRVLL  HKSLKLYQVIFEGEIGKGNLGGIAVDDISINNHISQEDCAKPTDLDDKNTKIDETGSTPGYEGEGEGD  KNISRKPGNVLKTLDPILITIIAMSALGVLLGAVCGVLYCACWHNGMSERNLSALENYNFELVDGVKLL  KDKLNPQSNYSEA</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	103.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_032763</a>
<b>Locus ID:</b>	18186
<b>UniProt ID:</b>	<a href="#">P97333</a>
<b>RefSeq Size:</b>	5921
<b>Cytogenetics:</b>	8 75.78 cM
<b>RefSeq ORF:</b>	2769
<b>Synonyms:</b>	C530029I03; NP-1; NPN-1; Npn1; Nrp
<b>Summary:</b>	Receptor involved in the development of the cardiovascular system, in angiogenesis, in the formation of certain neuronal circuits and in organogenesis outside the nervous system. Mediates the chemorepulsant activity of semaphorins. Binds to semaphorin 3A, the PLGF-2 isoform of PGF, the VEGF165 isoform of VEGFA and VEGFB. Coexpression with KDR results in increased VEGF165 binding to KDR as well as increased chemotaxis. Regulates VEGF-induced angiogenesis (By similarity). Binding to VEGFA initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development (PubMed:26503042).[UniProtKB/Swiss-Prot Function]