

Product datasheet

Recombinant Human Neuropilin 1 protein ab132179

1 Image

Description

<b>Product name</b>	Recombinant Human Neuropilin 1 protein
<b>Expression system</b>	Wheat germ
<b>Accession</b>	<a href="#">O14786-2</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

**Sequence**

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RNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLIQAPD
PYQRIMINFN
PHFDLEDRDCKYDYVEVFDGENENGFHFRGKFCGKIAPP
VVSSGPFLFIK
FVSDYETHGAGFSIRYEIFKRGPECSQNYTTPSGVIKSPGF
PEKYPNSLE
CTYVFALKMSEIILEFESFDLEPDSNPPGGMFCRYDRLEIR
DGFPDVG
HIGRYCGQKTPGRIRSSSGILSMVFYTDSIAKEGFSANYS
VLQSSVSED
FKCMEALGMESGEIHSQITASSQYSTNWSAERSRLNYPE
NGWTPGEDSY
REWIQVDLGLLRFVTAVGTQGAISKETKKKYYVKTYKIDVS
SNGEDWITI
KEGNKPVLFQGNTPDVVAVFPKPLITRFVRIKPATWE
TGISMRFEVY
GCKITDYPCSGMLGMVSGLISDSQITSSNQGDRNWMPENI
RLVTSRSGWA
LPPAPHSYINEWLQIDLGEEKIVRGIIQGGKHRENKVFMRK
FKIGYSNN
GSDWKMIMDDSKRKAJSFEGNNNYDTPELRTFPALSTRFI
RIMPERATHG
GLGLRMELLGCEVEAPTAGPTTPNGNLVDECDDDDQANC
HSGTGDDFQLTG GTTVLATEKPTVIDSTIQSGIK
    
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<b>Predicted molecular weight</b>	94 kDa including tags
<b>Amino acids</b>	23 to 644
<b>Tags</b>	GST tag N-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab132179** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA Western blot SDS-PAGE
<b>Form</b>	Liquid

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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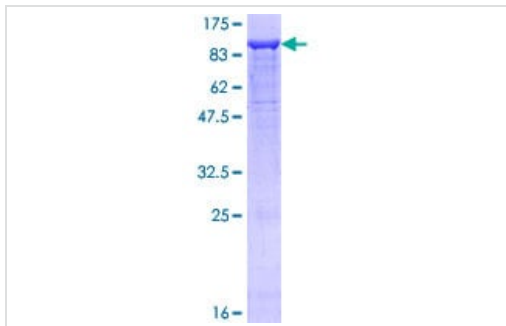
## General Info

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<b>Function</b>	<p>The membrane-bound isoform 1 is a 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. It mediates the chemorepulsant activity of semaphorins. It binds to semaphorin 3A, The PLGF-2 isoform of PGF, The VEGF-165 isoform of VEGF and VEGF-B. Coexpression with KDR results in increased VEGF-165 binding to KDR as well as increased chemotaxis. It may regulate VEGF-induced angiogenesis.</p> <p>The soluble isoform 2 binds VEGF-165 and appears to inhibit its binding to cells. It may also induce apoptosis by sequestering VEGF-165. May bind as well various members of the semaphorin family. Its expression has an averse effect on blood vessel number and integrity.</p>
<b>Tissue specificity</b>	<p>The expression of isoforms 1 and 2 does not seem to overlap. Isoform 1 is expressed by the blood vessels of different tissues. In the developing embryo it is found predominantly in the nervous system. In adult tissues, it is highly expressed in heart and placenta; moderately in lung, liver, skeletal muscle, kidney and pancreas; and low in adult brain. Isoform 2 is found in liver hepatocytes, kidney distal and proximal tubules.</p>
<b>Sequence similarities</b>	<p>Belongs to the neuropilin family. Contains 2 CUB domains. Contains 2 F5/8 type C domains. Contains 1 MAM domain.</p>
<b>Cellular localization</b>	Secreted and Cell membrane.

## Images

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12.5% SDS-PAGE analysis of ab132179 stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Neuropilin 1 protein (ab132179)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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