

Product datasheet

Neuropilin 1 peptide ab189308

1 References

Description

Product name	Neuropilin 1 peptide
Accession	<u>O14786</u>
Animal free	No
Nature	Synthetic

Specifications

Our **Abpromise guarantee** covers the use of **ab189308** in the following tested applications.

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

Applications	Blocking - Blocking peptide for Anti-Neuropilin 1 antibody [EPR31113] (<u>ab81321</u>)
Form	Lyophilized
Additional notes	Blocking peptide for <u>ab81321</u> . <i>- First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions.</i> <i>- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer.</i> <i>- Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent.</i> <i>- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised.</i> <i>- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.</i>

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Information available upon request.
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General Info

Function	The membrane-bound isoform 1 is a receptor involved in the development of the cardiovascular
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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.

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.

Tissue specificity

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.

Sequence similarities

Belongs to the neuropilin family.
Contains 2 CUB domains.
Contains 2 F5/8 type C domains.
Contains 1 MAM domain.

Cellular localization

Secreted and Cell membrane.

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