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Datasheet for ABIN2181550 Neuropilin 1 Protein (NRP1) (AA 22-644) (Fc Tag)

2 Images

1 Publication



Overview

Quantity:	50 µg
Target:	Neuropilin 1 (NRP1)
Protein Characteristics:	AA 22-644
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Neuropilin 1 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 22-644
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 96.5 kDa. The protein migrates as 120-125 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.
Target Details	
Target:	Neuropilin 1 (NRP1)

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Target Details	
Alternative Name:	Neuropilin-1 (NRP1 Products)
Background:	Neuropilin-1 (NRP1) is also known as Vascular endothelial cell growth factor 165 receptor (VEGF165R), CD antigen CD304, which belongs to the neuropilin family. 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. The soluble isoform 2 binds VEGF- 165 and appears to inhibit its binding to cells.
Molecular Weight:	96.5 kDa
Pathways:	Regulation of Cell Size, Signaling Events mediated by VEGFR1 and VEGFR2, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling, VEGFR1 Specific Signals
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

-20 °C

Publications

Storage:

Product cited in:de Guzman, Rabbany: "PEG-Immobilized Keratin for Protein Drug Sequestration and pH-Mediated Delivery." in: Journal of drug delivery, Vol. 2016, pp. 7843951, (2016) (PubMed).

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2.0

1.5

1.0

0.5

0.0

0

40

20

60

80

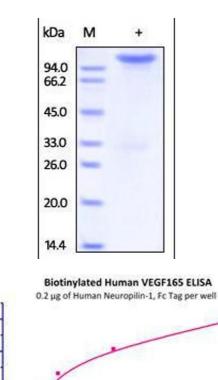
Biotinylated Human VEGF165 Con. (ng/mL)

100

120

140

Mean Abs. (OD450)



SDS-PAGE

Image 1. Human Neuropilin-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Binding Studies

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Image 2. Immobilized Human Neuropilin-1, Fc Tag (Cat # NR1-H5252) at 2 μ g/mL (100 μ L/well) can bind Biotinylated Human VEGF165 (Cat # VE5-H8210) with a linear range of 5-40 ng/mL.

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