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Datasheet for ABIN7520359
Neuropilin 1 Protein (NRP1) (His tag)

Overview

Quantity:	20 µg
Target:	Neuropilin 1 (NRP1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Neuropilin 1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Neuropilin-1/NRP1/VEGF165R/CD304 Protein
Sequence:	FRNDKCGDTI KIESPGYLTS PGYPHSYHPS EKCEWLIQAP DPYQRIMINF NPHFDLEDRD CKYDYVEVFD GENENGHFRG KFCGKIAPPP VVSSGPFLFI KVVSDYETHG AGFSIRYEIF KRGPECSQNY TTPSGVIKSP GFPEKYPNSL ECTYIVFAPK MSEIILEFES FDLEPDSNPP GGMFCRYDRL EIWDGFPDVG PHIGRYCGQK TPGRIRSSSG ILSMVFYTDS AIAKEGFSAN YSVLQSSVSE DFKCMEALGM ESGEIHSQI TASSQYSTNW SAERSRLNYP ENGWTPGEDS YREWIQVDLG LLRFVTAVGT QGAISKETKK KYVVKTYKID VSSNGEDWIT IKEGNKPVLF QGNTNPTDVV VAVFPKPLIT RFVRIKPATW ETGISMRFEV YGCKITDYPC SGMLGMVSGL ISDSQITSSN QGDRNWMPEN IRLVTSRSGW ALPPAPHSYI NEWLQIDLGE EKIVRGIIIQ GGKHRENKVF MRKFKIGYSN NGSDWKMIMD DSKRKAKSFE GNNNYDTPPEL RTFPALSTRF IRIYPERATH GGLGLRMELL GCEVEAPTAG PTPPNGNLVD ECDDQANCH SGTGDDFQLT GGTTVLATEK PTVIDSTIQS GIK
Specificity:	Phe22-Lys644

Product Details

Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human NRP1 Protein at 2 µg/mL (100 µL/well) can bind NRP1 Rabbit pAb with a linear range of 1.9-98.96 ng/mL. Measured by its binding ability in a functional ELISA. Immobilized human VEGF165 at 1 µg/mL (25 µL/well) can bind Human CD304 with a linear range of 0.46-15.8 ng/mL.

Target Details

Target:	Neuropilin 1 (NRP1)
Alternative Name:	Neuropilin-1/NRP1/VEGF165R/CD304 (NRP1 Products)
Background:	<p>Description: 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.</p> <p>Name: BDCA4,CD304,NP1,NRP,VEGF165R,Neuropilin-1,NRP1</p>
Gene ID:	8829
UniProt:	014786
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
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %

Handling

Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C, -80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.