

# Recombinant Human Neuropilin-1/NRP1/VEGF165R/CD304 Protein

Catalog No.: RP00137 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	8829	O14786

### Tags

C-His

### Synonyms

BDCA4;CD304;NP1;NRP;VEGF165R;Neuropilin-1;NRP1

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

### Endotoxin

&lt; 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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

## Background

Neuropilins contain a large N-terminal extracellular domain, made up of complement-binding, coagulation factor V/VIII, and meprin domains. These proteins also contain 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.

## Basic Information

### Description

Recombinant Human Neuropilin-1/NRP1/VEGF165R/CD304 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Phe22-Lys644) of human Neuropilin-1/NRP1 (Accession #NP\_001019799) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

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.

### Storage

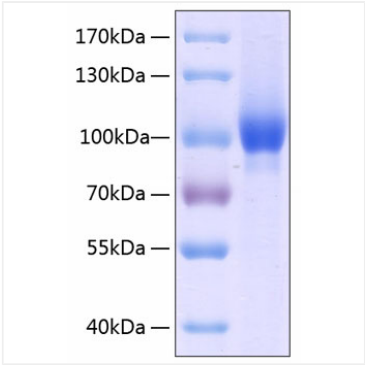
Store the lyophilized protein at -20°C to -80 °C for long term.

After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

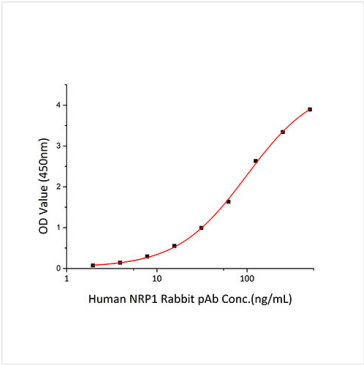
Avoid repeated freeze/thaw cycles.

## Contact

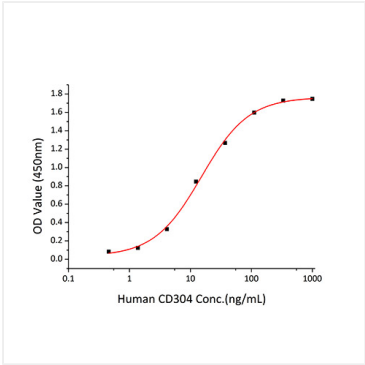
Validation Data



Recombinant Human Neuropilin-1/NRP1/VEGF165R/CD304 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 90-120 kDa.



Immobilized recombinant Human NRP1 Protein at 2µg/mL (100 µL/well) can bind NRP1 Rabbit pAb with a linear range of 1.9-98.96ng/mL.



Immobilized human VEGF165 at 1µg/mL (25 µL/well) can bind Human CD304 with a linear range of 0.46-15.8ng/mL.