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

**Catalog No.: RP00137**

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## Sequence Information

**Species**
Human

**Gene ID**
8829

**Swiss Prot**
O14786

**Tags**
C-His

**Synonyms**
BDCA4,CD304,NP1,NRP,VEGF165R, Neuropilin-1,NRP1

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
70.79 kDa

**Observed MW**
90-110 kDa

**Endotoxin**
< 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 stablizer (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 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.

## 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 6×His tag at the C-terminus.

**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.
2.Measured by its binding ability in a functional ELISA.Immobilized human VEGF165 at 1μg/mL (25 μL/well) can bind Human CD304 with a linear range of 0.46-15.8ng/mL.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

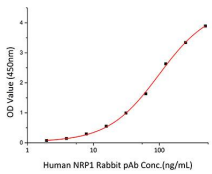
**Contact**

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

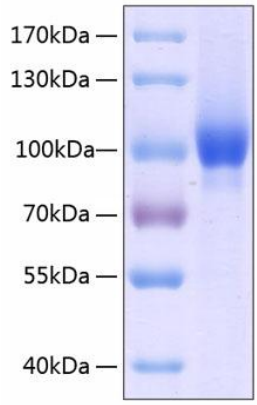


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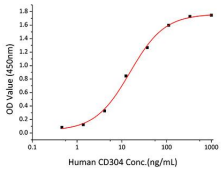
## Validation Data




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.




Recombinant Human Neuropilin-1/NRP1/VEGF165R/CD304 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.




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