HUMAN CD304 PROTEIN, HIS TAG

Cat.#: 11577

Product Name: Human CD304 Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: Neuropilin-1;NRP1

Target: CD304

UNIPROT ID: O14786

Description: Recombinant human CD304 protein with C-terminal 6xHis tag

Background: This gene encodes one of two neuropilins, which contain specific protein domains which allow them to participate in several different types of signaling pathways that control cell migration. 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. This protein has also been determined to act as a co-receptor for SARS-CoV-2 (which causes COVID-19) to infect host cells. [provided by RefSeq, Nov 2020]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 94.6 kDa after removal of the signal peptide. The apparent molecular mass of CD304-His is approximately 100-130 kDa due to glycosylation.

Molecular Characterization: CD304(Phe22-Pro856) 6×His tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

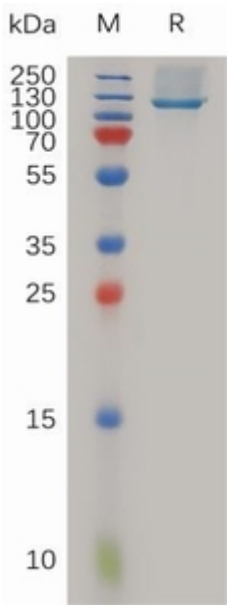

Figure 1. Human CD304 Protein, His Tag on SDS-PAGE under reducing condition.