

**HUMAN VEGFR2 PROTEIN, HIS TAG****Cat.#:** 11222**Product Name:** Human VEGFR2 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CD309;FLK1;VEGFR;VEGFR2**Target:** VEGFR2**UNIPROT ID:** P35968**Description:** Recombinant human VEGFR2 Protein with C-terminal 6xHis tag

**Background:** Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin  $\alpha$ V $\beta$ 3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 84.1kDa after removal of the signal peptide. The apparent molecular mass of VEGFR2-His is approximately 130-250 kDa due to glycosylation.

**Molecular Characterization:** VEGFR2(Ala20-Glu764) 6xHis tag

**Purity:** The purity of the protein is greater than 95% 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 VEGFR2 Protein, His Tag on SDS-PAGE under reducing condition.

## Human VEGFR2, His tagged protein ELISA

0.5  $\mu$ g of Human VEGFR2, His tagged protein per well

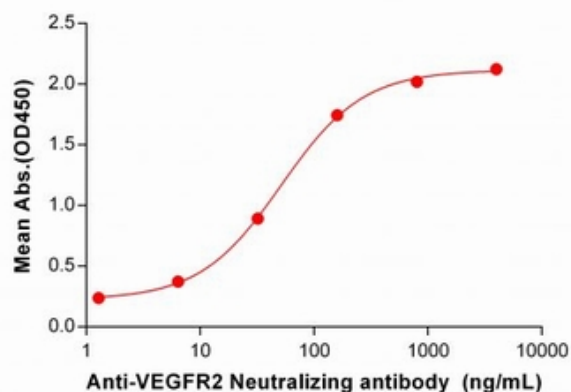


Figure 2. ELISA plate pre-coated by 5  $\mu$ g/ml (100  $\mu$ l/well) Human VEGFR2 protein, His Tag (11222) can bind Anti-VEGFR2 Neutralizing antibody 28067 in a linear range of 6.4-800 ng/mL.