

## PRODUCT INFORMATION

<b>Target</b>	VEGFR2
<b>Synonyms</b>	CD309;FLK1;VEGFR;VEGFR2
<b>Description</b>	Recombinant human VEGFR2 Protein with C-terminal 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P35968
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-6×His Tag
<b>Molecular Characterization</b>	VEGFR2(Ala20-Glu764) 6×His tag
<b>Molecular Weight</b>	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.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	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 alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



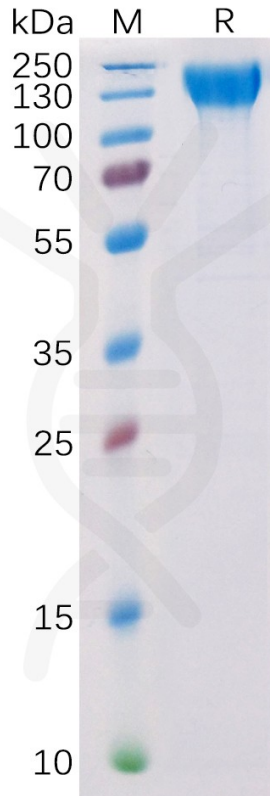


Figure 1. Human VEGFR2 Protein, His Tag on SDS-PAGE under reducing condition.

### Human VEGFR2, His tagged protein ELISA

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

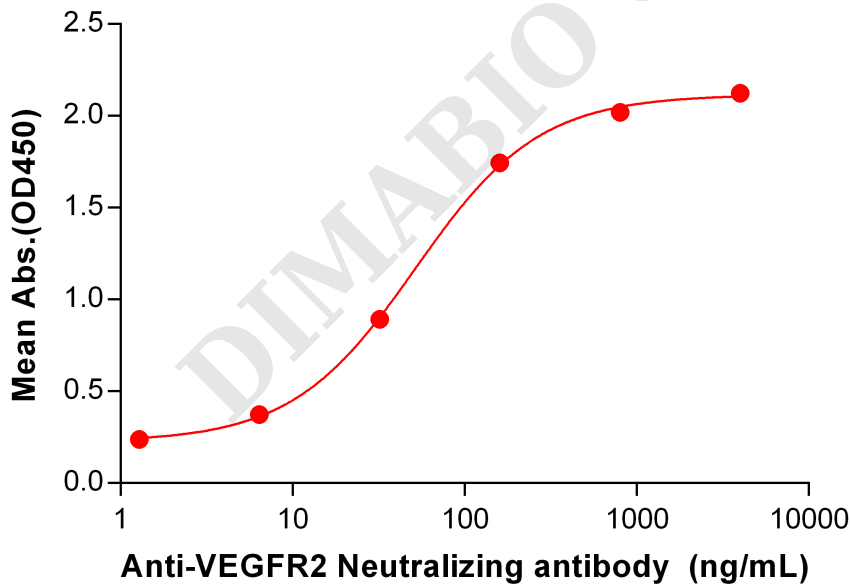


Figure 2. ELISA plate pre-coated by 5  $\mu$ g/mL (100  $\mu$ L/well) Human VEGFR2 protein, His Tag (PME100104) can bind Anti-VEGFR2 Neutralizing antibody BME100060 in a linear range of 6.4-800 ng/mL.

