HUMAN FLT1 PROTEIN, HFC TAG

Cat.#: 11725
Product Name: Human FLT1 Protein
Size : 10 μg, 50 μg and 100 μg
Synonyms: VEGFR-1;FLT-1;FLT
Target: FLT1
UNIPROT ID: P17948
Description: Recombinant human FLT1 protein with C-terminal human Fc tag
Background: This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.[provided by RefSeq, May 2009]
Species/Host: HEK293
Molecular Weight: The protein has a predicted molecular mass of 108.3 kDa after removal of the signal peptide. The apparent molecular mass of FLT1-hFc is approximately 130-180 kDa due to glycosylation.
Molecular Characterization: FLT1(Ser27-Asn756) hFc(Glu99-Ala330)
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.

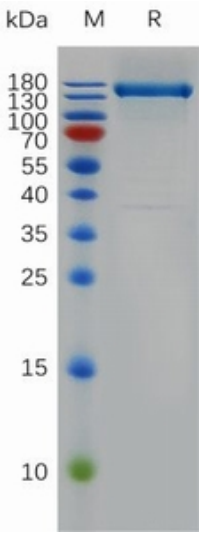

Figure 1. Human FLT1 Protein, hFc Tag on SDS-PAGE under reducing condition.

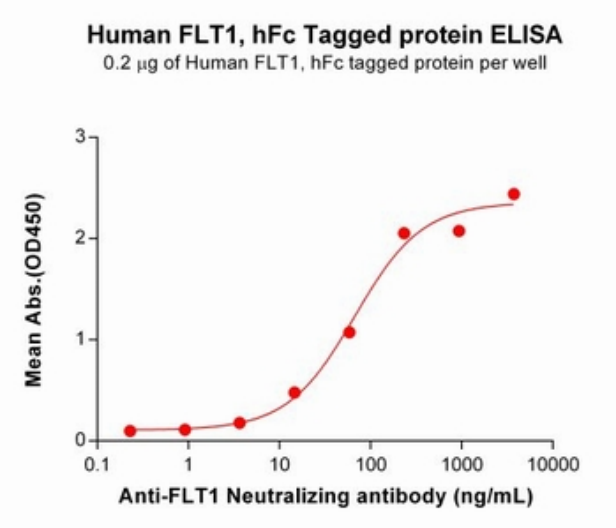

Figure 2. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human FLT1 Protein, hFc Tag (11725) can bind Anti-FLT1 Neutralizing antibody 28126 in a linear range of 3.66-234.38 ng/mL.