

For Research Use Only

Recombinant Human VEGFR2/KDR protein (hFc Tag)



Catalog Number: Eg0354

Basic Information

Species:
Human

Purity:
>95 %, SDS-PAGE

Tag:
hFc Tag

EC50:
7-30 ng/mL

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human VEGFR2 protein Ala20-Glu764 (Accession# P35968-1) with a human IgG1 Fc tag at the C-terminus.

GeneID:
3791

Accession:
P35968-1

Predicted Molecular Mass:
110.3 kDa

SDS-PAGE:
125-150 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human VEGF165 (His tag) at 0.1 μg/mL (100 μL/well) can bind Human VEGFR2 (hFc tag) with a linear range of 7-30 ng/mL.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

VEGFR2, also named as KDR, FLK1 and CD309, is one of the two tyrosine kinase receptors involved in angiogenesis. VEGFR2 is mainly distributed in vascular endothelial cells, lymphatic endothelial cells, and embryonic precursor cells, and can bind to VEGF-A, VEGF-C, and VEGF-D. When activated by its ligand VEGF, VEGFR2 promotes neighbouring vessel formation to facilitate the delivery of growth factors, nutrients and oxygen for cancer proliferation, migration, metastasis and survival. VEGF and VEGFR2 mediated angiogenesis contributes to the aggressive natures and leads to high mortality rate in gastric cancer.

References

1. Xinrong Wang. et al. (2020). Front Cell Dev Biol. 8:599281
2. Michael Simons. et al. (2016). Nat Rev Mol Cell Biol. 17(10):611-25.
3. Jing Yu. et al. (2016). J Hematol Oncol. 9(1):111.
4. Seong Ah Park. et al. (2018). BMB Rep. 51(2):73-78.

Synonyms

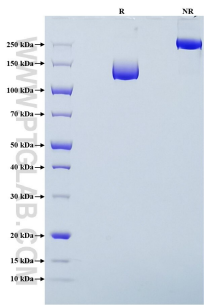
KDR, VEGFR2, VEGFR2/KDR, CD309, EC:2.7.10.1

For technical support and original validation data for this product please contact

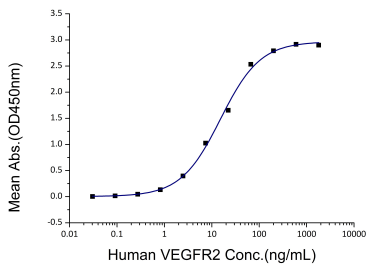
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Selected Validation Data



Purity of Recombinant Human VEGFR2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human VEGF165 (His tag) at 0.1 µg/mL (100 µL/well) can bind Human VEGFR2 (hFc tag) with a linear range of 7-30 ng/mL