Datasheet for ABIN7275833

VEGFR2/CD309 Protein (mFc Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	VEGFR2/CD309 (VEGFR2)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VEGFR2/CD309 protein is labelled with mFc Tag.

Product Details

Sequence:	Ala20-Glu764
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human VEGF165 1µg/ml (100µl/Well) on the plate. Dose response curve for Human VEGF R2, mFc Tag with the EC50 of 36.1ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	VEGF R2 (VEGFR2 Products)
Background:	CD309, KDR, VEGFR, VEGFR2, VEGFR-21, FLK1, KRD1, Ly73,Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the

Target Details

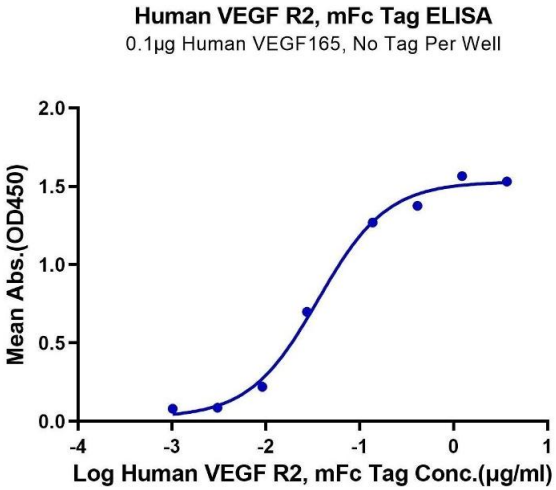
	development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. The tyrosine kinase receptor vascular endothelial growth factor receptor 2 (VEGFR2) is a key regulator of angiogenesis.
Molecular Weight:	110 kDa. Due to glycosylation, the protein migrates to 150-200 kDa based on Tris-Bis PAGE result.
Pathways:	RTK Signaling, Glycosaminoglycan Metabolic Process, Signaling Events mediated by VEGFR1 and VEGFR2, Growth Factor Binding, Regulation of long-term Neuronal Synaptic Plasticity, VEGF Signaling

Application Details

Restrictions:	For Research Use only

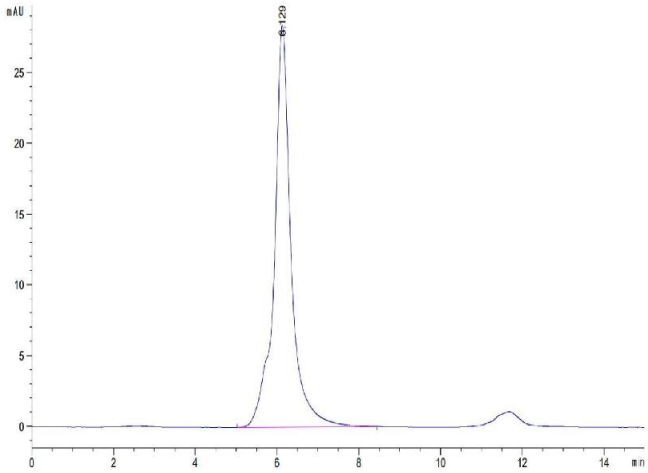
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months



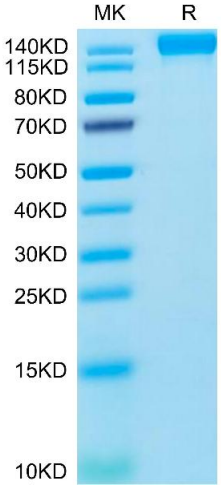
ELISA

Image 1. Immobilized Human VEGF165 1 μg/mL (100 μL/Well) on the plate. Dose response curve for Human VEGF R2, mFc Tag with the EC50 of 36.1 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human VEGF R2 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human VEGF R2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .