Datasheet for ABIN6253722

VEGFR2/CD309 Protein (AA 20-764) (His tag)

4 Images

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Overview

Quantity:	100 µg
Target:	VEGFR2/CD309 (VEGFR2)
Protein Characteristics:	AA 20-764
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This VEGFR2/CD309 protein is labelled with His tag.

Product Details

Sequence:	AA 20-764
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 86.2 kDa. The protein migrates as 100-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	HPLC verified

Target Details

Target:	VEGFR2/CD309 (VEGFR2)

Target Details

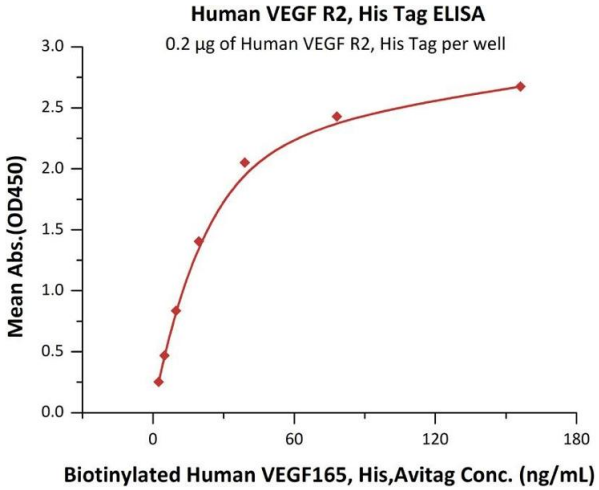
Alternative Name:	VEGF R2 (VEGFR2 Products)
Background:	Kinase insert domain receptor (KDR) is also known as CD309, FLK1, VEGFR, VEGFR2, and is one of the subtypes of VEGFR. VEGF receptors are receptors for vascular endothelial growth factor (VEGF). There are three main subtypes of VEGFR, numbered 1, 2 and 3. The VEGF receptors have an extracellular portion consisting of 7 immunoglobulin-like domains, a single transmembrane spanning region and an intracellular portion containing a split tyrosine-kinase domain. VEGF-A binds to VEGFR-1 (Flt-1) and VEGFR-2 (KDR/Flk-1). VEGFR-2 appears to mediate almost all of the known cellular responses to VEGF.The function of VEGFR-1 is less well defined, although it is thought to modulate VEGFR-2 signaling. Another function of VEGFR-1 may be to act as a dummy/decoy receptor, sequestering VEGF from VEGFR-2 binding (this appears to be particularly important during vasculogenesis in the embryo). In addition, VEGFR2 is able to interact with HIV-1 extracellular Tat protein upon VEGF activation, and seems to enhance angiogenesis in Kaposi's sarcoma lesions.
Molecular Weight:	85.2 kDa
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

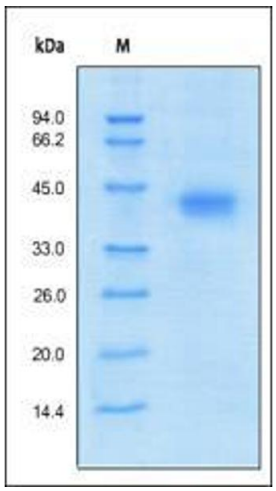
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.



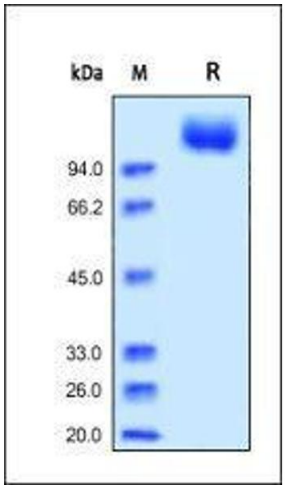
ELISA

Image 1. Immobilized Human VEGF R2, His Tag (ABIN2181917,ABIN6253722) at 2 μg/mL (100 μL/well) can bind Biotinylated Human VEGF165, His,Avitag (ABIN4949041,ABIN4949042) with a linear range of 2-39 ng/mL (QC tested).



SDS-PAGE

Image 2.



SDS-PAGE

Image 3. Human VEGF R2, His Tag (HPLC-verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Please check the product details page for more images. Overall 4 images are available for ABIN6253722.