

Datasheet for ABIN2870798

VEGFR2/CD309 Protein (AA 20-764) (His tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	VEGFR2/CD309 (VEGFR2)
Protein Characteristics:	AA 20-764
Origin:	Rhesus Monkey
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 85.2 kDa. The protein migrates as 120-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>97 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	VEGF R2 (VEGFR2 Products)

Target Details

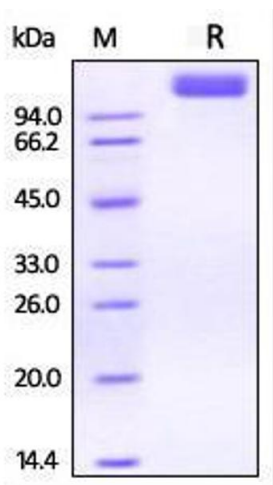
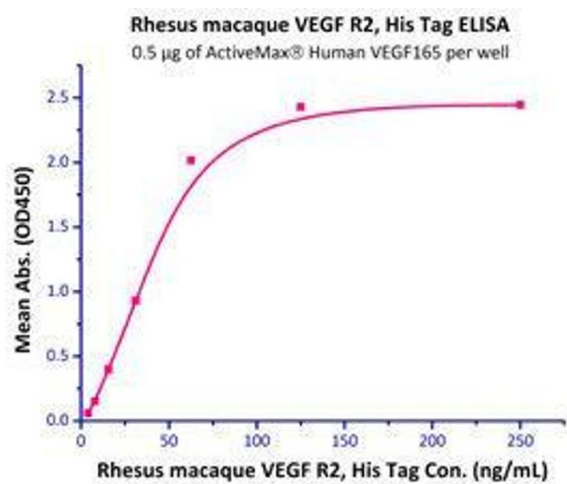
Background:	Kinase insert domain receptor (KDR) is also known as CD309, FLK1, VEGFR, VEGFR2, and is one of the subtypes of VEGFR. VEGF receptors are receptors for vascular endothelial growth factor (VEGF). There are three main subtypes of VEGFR, numbered 1, 2 and 3. The VEGF receptors have an extracellular 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
UniProt:	F7E313
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
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Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



Binding Studies

Image 1. Immobilized Human VEGF165 (Cat # VE5-H4210) at 2 µg/mL (100 µL/well) can bind Rhesus macaque VEGF R2, His Tag (Cat # VE2-C52H3) with a linear range of 4-60 ng/mL.

SDS-PAGE

Image 2. Rhesus macaque VEGF R2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 97%.