Datasheet for ABIN2181901

VEGF Protein (AA 27-190)

3 Images

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Overview

Quantity:	50 µg
Target:	VEGF
Protein Characteristics:	AA 27-190
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Brand:	ActiveMax®
Sequence:	AA 27-190
Characteristics:	This protein carries no "tag". The protein has a calculated MW of 19.3 kDa. The protein migrates as 23-25 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	HPLC verified

Target Details

Target:	VEGF

Target Details

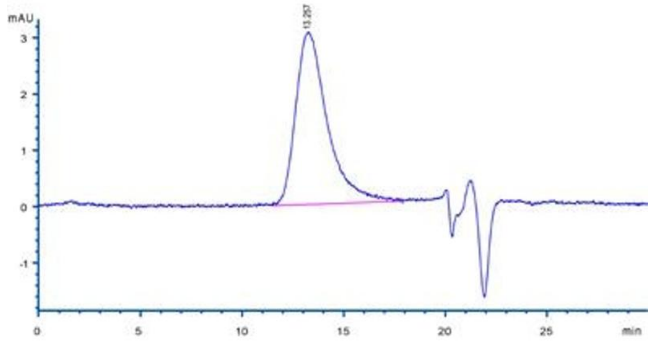
Alternative Name:	VEGF (VEGF Products)
Background:	Vascular endothelial growth factor A (VEGFA) is also known as Vascular permeability factor (VPF). VEGFA belongs to the PDGF/VEGF growth factor family. VEGFA is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. VEGFA is produced by a group of three major isoforms as a result of alternative splicing and if any three isoforms are produced (VEGFA120, VEGFA164, and VEGFA188) then this will not result in vessel defects and death of the full VEGFA knockout in mice.
Molecular Weight:	19.3 kDa

Application Details

Restrictions:	For Research Use only

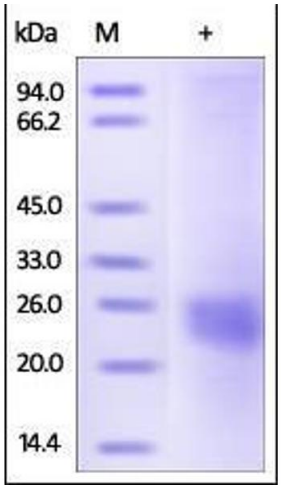
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



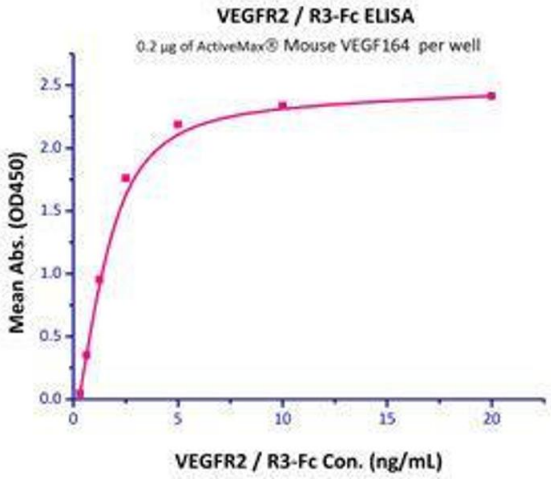
High Pressure Liquid Chromatography

Image 1. The purity of Mouse VEGF164, Tag Free (Hied) (ABIN2181901,ABIN3071750) was greater than 95 % as determined by .



SDS-PAGE

Image 2. Mouse VEGF164 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

Image 3. Immobilized Mouse VEGF164 (Cat# VE4-M4216) at 2 μg/mL (100 μL/well) can bind VEGFR2 / R3-Fc with a linear range of 0.3-2.5 ng/mL.