

Datasheet for ABIN964762
anti-VEGFA antibody



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	VEGFA
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	VEGF-121 Antibody
Immunogen:	Immunogen: This IgG fraction antibody was prepared from rabbit antiserum after repeated immunizations with mature length recombinant human VEGFA-121 protein produced in E.coli. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is specific for human VEGFA-121 protein.
Characteristics:	Synonyms: rabbit anti-VEGF-121 antibody, rabbit anti-Vascular endothelial growth factor A-121 antibody, VEGF-A121 cytokine, Vascular permeability factor, VPF-121, VEGFA-121
Purification:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.

Target Details

Target:	VEGFA
Alternative Name:	VEGFA (VEGFA Products)
Background:	<p>Background: Vascular endothelial growth factor-A was originally isolated from tumor cells and referred to as Tumor Angiogenesis Factor. Although expressed at high levels in certain tumor-derived cells it is produced by a wide variety of cell types. In addition to stimulating vascular growth, vascular permeability, cell migration, and endothelial cell proliferation and growth, it may play a role in stimulating vasodilation via nitric oxide-dependent pathways and in inhibition of apoptosis. VEGF binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. Alternative splicing of the mRNA for VEGF-A results in several isoforms of the protein being produced. Rat and bovine VEGF are one amino acid shorter than the human factor, and the bovine and human sequences show a homology of 95 percent. In contrast to other factors mitogenic for endothelial cells such as FGF-1, FGF-2 and PDGF, VEGF is synthesized as a precursor containing a typical hydrophobic secretory signal sequence of 26 amino acids. Glycosylation is not required for efficient secretion of VEGF. VEGF121 is acidic, freely secreted, and widely expressed. This isoform is produced by alternative promoter usage and alternative initiation. It starts at an alternative upstream CUG codon and is post-translationally processed to produce the secreted VEGF peptide and a N-terminal peptide N-VEGF. The unprocessed protein and the N-VEGF peptide may localize to the nucleus, the endoplasmic reticulum and the Golgi or the extracellular matrix.</p>
Gene ID:	7422, 6631029
UniProt:	P15692-9
Pathways:	RTK Signaling , Glycosaminoglycan Metabolic Process , Regulation of Cell Size , Tube Formation , Signaling Events mediated by VEGFR1 and VEGFR2 , Platelet-derived growth Factor Receptor Signaling , VEGFR1 Specific Signals , VEGF Signaling

Application Details

Application Notes:	<p>Application Note: This purified antibody has been tested in western blotting and suitable for ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 14.7 Da in size corresponding to the mature human VEGFA-121 protein by western blotting in appropriate cell lysate or extract.</p> <p>Western Blot Dilution: 1:1000</p> <p>ELISA Dilution: 1:10,000</p> <p>Other: User Optimized</p>
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Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	6 months

Images



Western Blotting

Image 1. Anti-human VEGF-121 by western blot shows detection of recombinant Human VEGF-121 raised in E.coli. Recombinant (0.1 µg, 28.4 kDa) protein was loaded onto and resolved by SDS-PAGE, then transferred to nitrocellulose. The membrane was blocked with 1% BSA in TBST for 30 min at RT, followed by incubation with , Inc. Anti-Human VEGF-121. After washing, membrane was probed with secondary antibody 649 Conjugated Anti-Rabbit IgG (H&L) (Goat) Antibody diluted 1:20,000 in blocking buffer for 30 min. at RT. Data was collected using Bio-Rad 4000 MP imaging system.