abcam

Product datasheet

Anti-VEGF 165A antibody [6B7] ab69479

43 References 2 Images

Overview

Product name	Anti-VEGF 165A antibody [6B7]
Description	Mouse monoclonal [6B7] to VEGF 165A
Host species	Mouse
Specificity	This antibody reacts with native and denatured human and mouse VEGF. The immunogen is Human Vascular Endothelial Growth Factor 165A, but this has high homology with multiple VEGF isoforms, therefore it should recognise these other isoforms too.
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human
Immunogen	Full length protein corresponding to Human VEGF 165A. Human Vascular Endothelial Growth Factor 165A. Database link: **P15692-4**
Positive control	VEGF protein
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	6B7

Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab69479 in the following tested applications.

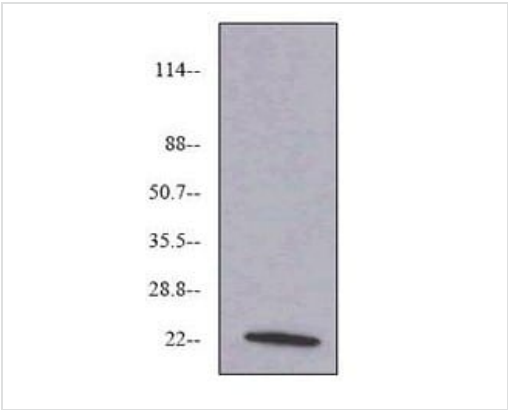
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent dilution. Detects a band of approximately 23 kDa (predicted molecular weight: 23 kDa).
IP		Use a concentration of 2 µg/ml.

Target

Function	Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.
Tissue specificity	Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed.
Involvement in disease	Defects in VEGFA are a cause of susceptibility to microvascular complications of diabetes type 1 (MVCD1) [MIM:603933]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.
Sequence similarities	Belongs to the PDGF/VEGF growth factor family.
Cellular localization	Secreted. VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a signicant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular matrix, although it may be released as a soluble form by heparin, heparinase or plasmin.

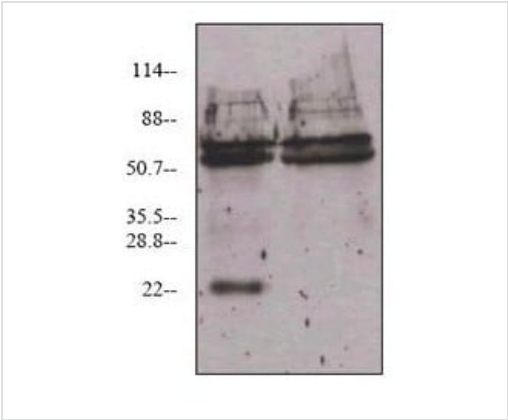
Images



Western blot - Anti-VEGF 165A antibody [6B7] (ab69479)

Anti-VEGF 165A antibody [6B7] (ab69479) + VEGF at 0.1 µg

Predicted band size: 23 kDa
Observed band size: 23 kDa



Immunoprecipitation - Anti-VEGF 165A antibody [6B7] (ab69479)

Lane 1- 1µg VEGF immunoprecipitated with 2µg antibody. Lane 2- HUVEC lysate immunoprecipitated with 2µg antibody.

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