

Rabbit VEGFB Polyclonal Antibody | anti-VEGFB antibody

Anti-VEGFB Picoband antibody

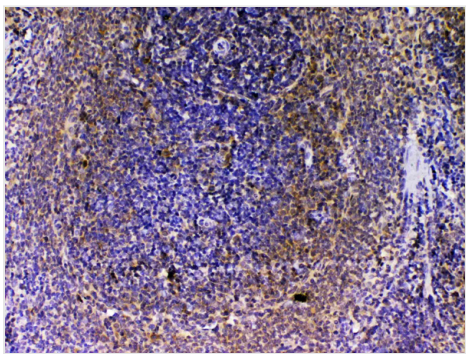
CATALOG # AAA124722	HOST Rabbit	REACTIVITY Mouse, Rat No cross reactivity with other proteins.	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

VEGFB; Polyclonal Antibody; Anti-VEGFB Picoband antibody; Vascular endothelial growth factor B; VEGF-B; VEGF-related factor; VRF; Vegfb; Vrf; anti-VEGFB antibody

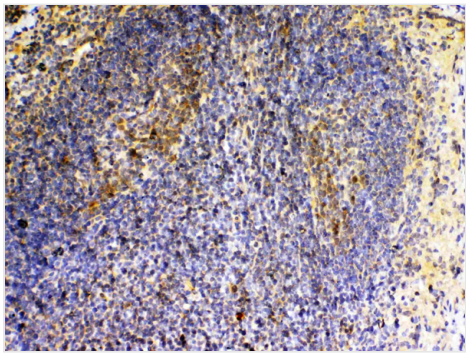
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	186
Applicable Applications for anti-VEGFB antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived rat VEGFB recombinant protein (Position: P22-A207).
Subcellular Localization	Secreted. Secreted but remains associated to cells or to the extracellular matrix unless released by heparin.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



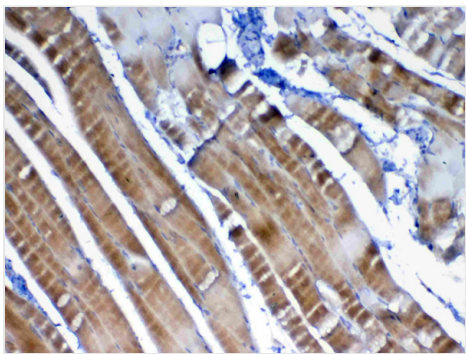
IHC (Immunohistochemistry)

Figure 5. IHC analysis of VEGFB using anti-VEGFB antibody (AAA124722). VEGFB was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-VEGFB Antibody (AAA124722) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



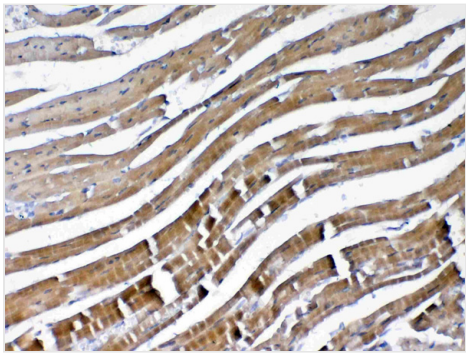
IHC (Immunohistochemistry)

Figure 3. IHC analysis of VEGFB using anti-VEGFB antibody (AAA124722). VEGFB was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-VEGFB Antibody (AAA124722) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



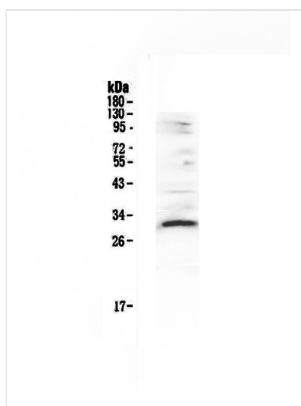
IHC (Immunohistochemistry)

Figure 4. IHC analysis of VEGFB using anti-VEGFB antibody (AAA124722). VEGFB was detected in paraffin-embedded section of rat skeletal muscle tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-VEGFB Antibody (AAA124722) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of VEGFB using anti-VEGFB antibody (AAA124722). VEGFB was detected in paraffin-embedded section of mouse heart tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-VEGFB Antibody (AAA124722) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of VEGFB using anti-VEGFB antibody (AAA124722). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat heart tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-VEGFB antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for VEGFB at approximately 29KD. The expected band size for VEGFB is at 22KD.

ADDITIONAL INFORMATION

Related Product Information for anti-VEGFB antibody	Description: Vascular endothelial growth factor B also known as VEGF-B is a protein that, in humans, is encoded by the VEGF-B gene. VEGF-B is a growth factor that belongs to the vascular endothelial growth factor family, of which VEGF-A is the best-known member. In contrast to VEGF-A, VEGF-B plays a less pronounced role in the vascular system: Whereas VEGF-A is important for the formation of blood vessels, such as during development or in pathological conditions, VEGF-B seems to play a role only in the maintenance of newly formed blood vessels during pathological conditions. It also plays an important role on several types of neurons. And it is important for the protection of neurons in the retina and the cerebral cortex during stroke and of motoneurons during motor neuron diseases such as amyotrophic lateral sclerosis. Protein Function: Growth factor for endothelial cells. VEGF-B167 binds heparin and neuropilin-1 whereas the binding to neuropilin-1 of VEGF-B186 is regulated by proteolysis (By similarity).
Product Categories/Family for anti-VEGFB antibody	Cardiovascular; Angiogenesis; Growth Factors; VEGF; Signal Transduction; Growth Factors/Hormones; Neuroscience; Neurology Process; Neurogenesis; Cancer; Invasion/Microenvironment; Angiogenic Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	61097937
NCBI GeneID	89811
NCBI Accession #	NP_446001.1
NCBI GenBank Nucleotide #	NM_053549.1
UniProt Accession #	O35485; O54881; Q6DGF3
Molecular Weight	21,102 Da
NCBI Official Full Name	vascular endothelial growth factor B
NCBI Official Synonym Full Names	vascular endothelial growth factor B
NCBI Official Symbol	Vegfb
NCBI Protein Information	vascular endothelial growth factor B

UniProt Protein Name	Vascular endothelial growth factor B
UniProt Gene Name	Vegfb
UniProt Synonym Gene Names	Vrf; VEGF-B; VRF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/vegfb-antibody-western-blot-immunohistochemistry-elisa/124722>