Rabbit VEGF Receptor 3 Polyclonal Antibody | anti-FLT4 antibody

Anti-VEGF Receptor 3 Picoband Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19146	**Rabbit**	**Human, Mouse, RatNo cross reactivity with other proteins.**	**Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

VEGF Receptor 3; Polyclonal Antibody; Anti-VEGF Receptor 3 Picoband Antibody; Vascular endothelial growth factor receptor 3; VEGFR-3; 2.7.10.1; Fms-like tyrosine kinase 4; FLT-4; Tyrosine-protein kinase receptor FLT4; FLT4; VEGFR3; anti-FLT4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	830
Applicable Applications for anti-FLT4 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.5mug/ml Immunohistochemistry (Paraffin-embedded Section): 0.5-1mug/ml
Immunogen	A synthetic peptide corresponding to a sequence of human VEGF Receptor 3 (SCRGQHPLEWAWPGAQEAPATGDKDSEDT).
Subcellular Localization	Cell membrane; Ligand-mediated autophosphorylation leads to rapid internalization.
Tissue Specificity	Detected in endothelial cells (at protein level). Widely expressed. Detected in fetal spleen, lung and brain. Detected in adult liver, muscle, thymus, placenta, lung, testis, ovary, prostate, heart, and kidney.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 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.

IMAGES

IHC (Immunohistochemistry)
Figure 8. IHC analysis of VEGF Receptor 3 using anti-VEGF Receptor 3 antibody (AAA19146).VEGF Receptor 3 was detected in paraffin-embedded section of human mammary cancer 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-VEGF Receptor 3 Antibody (AAA19146) 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 Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistchemistry)
Figure 6. IHC analysis of VEGF Receptor 3 using anti-VEGF Receptor 3 antibody (AAA19146).VEGF Receptor 3 was detected in paraffin-embedded section of mouse liver 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-VEGF Receptor 3 Antibody (AAA19146) 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 Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 4. IHC analysis of VEGF Receptor 3 using anti-VEGF Receptor 3 antibody (AAA19146).VEGF Receptor 3 was detected in paraffin-embedded section of human placenta 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-VEGF Receptor 3 Antibody (AAA19146) 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 Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 7. IHC analysis of VEGF Receptor 3 using anti-VEGF Receptor 3 antibody (AAA19146).VEGF Receptor 3 was detected in paraffin-embedded section of rat liver 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-VEGF Receptor 3 Antibody (AAA19146) 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 Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 5. IHC analysis of VEGF Receptor 3 using anti-VEGF Receptor 3 antibody (AAA19146).VEGF Receptor 3 was detected in paraffin-embedded section of human prostatic cancer 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-VEGF Receptor 3 Antibody (AAA19146) 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 Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 3. IHC analysis of VEGF Receptor 3 using anti-VEGF Receptor 3 antibody (AAA19146).VEGF Receptor 3 was detected in paraffin-embedded section of human lung cancer 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-VEGF Receptor 3 Antibody (AAA19146) 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 Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-FLT4 antibody	Description: Fms-related tyrosine kinase 4, also known as FLT4 or VEGFR3, is a protein which in humans is encoded by the FLT4 gene. It is mapped to 5q35.3. This gene encodes a tyrosine kinase receptor for vascular endothelial growth factors C and D. The protein is thought to be involved in lymphangiogenesis and maintenance of the lymphatic endothelium. FLT4 has an essential role in the development of the embryonic cardiovascular system before the emergence of the lymphatic vessels. It has been found that FLT4, which provides proangiogenic signaling when expressed on endothelium, may also have antiangiogenic properties when expressed at an avascular site by nonendothelial cells. FLT4 is also regarded as a regulator of vascular network formation. Protein Function: Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFC and VEGFD, and plays an essential role in adult lymphangiogenesis and in the development of the vascular network and the cardiovascular system during embryonic development. Promotes proliferation, survival and migration of endothelial cells, and regulates angiogenic sprouting. Signaling by activated FLT4 leads to enhanced production of VEGFC, and to a lesser degree VEGFA, thereby creating a positive feedback loop that enhances FLT4 signaling. Modulates KDR signaling by forming heterodimers. The secreted isoform 3 may function as a decoy receptor for VEGFC and/or VEGFD and play an important role as a negative regulator of VEGFC-mediated lymphangiogenesis and angiogenesis. Binding of vascular growth factors to isoform 1 or isoform 2 leads to the activation of several signaling cascades; isoform 2 seems to be less efficient in signal transduction, because it has a truncated C-terminus and therefore lacks several phosphorylation sites. Mediates activation of the MAPK1/ERK2, MAPK3/ERK1 signaling pathway, of MAPK8 and the JUN signaling pathway, and of the AKT1 signaling pathway. Phosphorylates SHC1. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3- kinase. Promotes phosphorylation of MAPK8 at 'Thr-183' and 'Tyr- 185', and of AKT1 at 'Ser-473'.

NCBI AND UNIPROT INFORMATION

NCBI GI #	103472027
NCBI GeneID	2324
NCBI Accession #	NP_002011.2
NCBI GenBank Nucleotide #	NM_002020.4
UniProt Accession #	P35916; Q16067; Q86W07; Q86W08; A8K6L4; B5A926
Molecular Weight	93,174 Da
NCBI Official Full Name	vascular endothelial growth factor receptor 3 isoform 2
NCBI Official Synonym Full Names	fms related tyrosine kinase 4
NCBI Official Symbol	FLT4
NCBI Official Synonym Symbols	PCL; FLT-4; FLT41; LMPH1A; VEGFR3; VEGFR-3
NCBI Protein Information	vascular endothelial growth factor receptor 3
UniProt Protein Name	Vascular endothelial growth factor receptor 3
UniProt Gene Name	**FLT4**
UniProt Synonym Gene Names	VEGFR3; VEGFR-3; FLT-4

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/vegf-receptor-3-antibody-immunohistochemistry-western-blot-elisa/19146