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VEGFB Polyclonal Antibody

Catalog Number **PA5-13304**

Product data sheet

Details	
Size	400 µL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	KLH conjugated synthetic peptide between 110-139 amino acids from the central region of human VEGFB (VEGF2)
Conjugate	Unconjugated
Form	Liquid
Concentration	Lot-specific
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Human

Tested Applications	Dilution *
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:50
Western Blot (WB)	1:1,000

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Background/Target Information

Vascular endothelial growth factors (VEGFs) are a family of closely related growth factors having a conserved pattern of eight cysteine residues and sharing common VEGF receptors. VEGFs stimulate endothelial cells, induce angiogenesis, promote cell migration, increase vascular permeability, and inhibit apoptosis. VEGFB has structural similarities to VEGF and PIGF and is frequently co-expressed with VEGF. There are two alternatively spliced isoforms of VEGFB: VEGFB 167 and VEGFB 186. VEGFB 167, a highly basic heparin-binding protein, remains with the cell or extracellular matrix whereas, VEGFB 186 is readily secreted. VEGFB stimulates endothelial cell proliferation. VEGFB binds to the tyrosine kinase receptor VEGFR1 (flt1) and does not bind to VEGFR2. Vascular Endothelial Growth Factor B is widely expressed but is most abundant in heart, skeletal muscle, and pancreas. It has been suggested that VEGFB expression in human primary breast cancers is associated with lymph node metastasis. The genes that encode VEGFB have been mapped to chromosome 11q13.

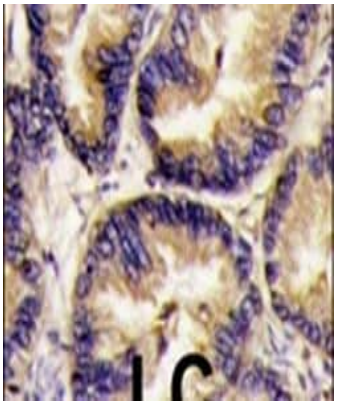
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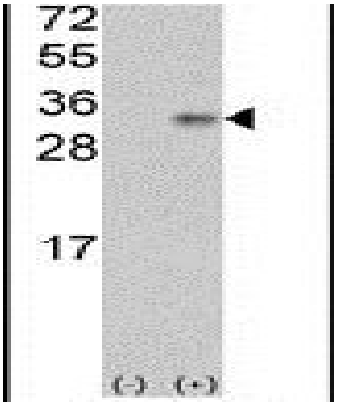
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Product Images For VEGFB Polyclonal Antibody



VEGFB Antibody (PA5-13304) in IHC

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lung carcinoma tissue using a VEGFB polyclonal antibody (Product # PA5-13304), followed by HRP-conjugated secondary antibody and DAB staining.



VEGFB Antibody (PA5-13304) in WB

Western blot analysis of VEGF2 (arrow) using a VEGFB polyclonal antibody (Product # PA5-13304) in 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the VEGF2 gene (Lane 2).

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