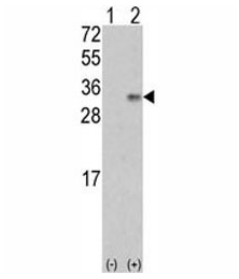
VEGFB Antibody / VEGF2 (F40132)

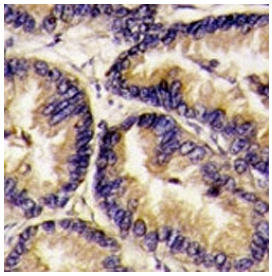
Catalog No.	Formulation	Size
F40132-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40132-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P49765
Localization	Secreted
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50
Limitations	This VEGFB antibody is available for research use only.



Western blot analysis of VEGFB antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the VEGF2/VEGFB gene (2). Expected molecular weight: 22-32 kDa depending on glycosylation level.



IHC analysis of FFPE human lung carcinoma tissue stained with VEGFB antibody.

Description

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.

Application Notes

Titration of the VEGFB antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 110-139 from the human protein was used as the immunogen for this VEGFB antibody.

Storage

Aliquot the VEGFB antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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