

**VEGF-B Polyclonal Antibody**

<b>Catalog No :</b>	YT4871
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	VEGF-B
<b>Fields :</b>	>>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>Calcium signaling pathway;>>PI3K-Akt signaling pathway;>>Focal adhesion;>>Relaxin signaling pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Pathways in cancer
<b>Gene Name :</b>	VEGFB
<b>Protein Name :</b>	Vascular endothelial growth factor B
<b>Human Gene Id :</b>	7423
<b>Human Swiss Prot No :</b>	P49765
<b>Mouse Gene Id :</b>	22340
<b>Mouse Swiss Prot No :</b>	P49766
<b>Rat Gene Id :</b>	89811
<b>Rat Swiss Prot No :</b>	O35485
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human VEGFB. AA range:91-140
<b>Specificity :</b>	VEGF-B Polyclonal Antibody detects endogenous levels of VEGF-B protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000. IF 1:100-300 Not yet tested in other applications.

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 21kD

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**Cell Pathway :** Cytokine-cytokine receptor interaction;mTOR;Focal adhesion;Pathways in cancer;Renal cell carcinoma;Pancreatic cancer;Bladder cancer;

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**Background :** This gene encodes a member of the PDGF (platelet-derived growth factor)/VEGF (vascular endothelial growth factor) family. The VEGF family members regulate the formation of blood vessels and are involved in endothelial cell physiology. This member is a ligand for VEGFR-1 (vascular endothelial growth factor receptor 1) and NRP-1 (neuropilin-1). Studies in mice showed that this gene was co-expressed with nuclear-encoded mitochondrial genes and the encoded protein specifically controlled endothelial uptake of fatty acids. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Sep 2011],

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**Function :** alternative products:Additional isoforms seem to exist,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.,PTM:VEGF-B186 is O-glycosylated.,similarity:Belongs to the PDGF/VEGF growth factor family.,subcellular location:Secreted but remains associated to cells or to the extracellular matrix unless released by heparin.,subunit:Homodimer; disulfide-linked. Can also form heterodimer with VEGF.,tissue specificity:Expressed in all tissues except liver. Highest levels found in heart, skeletal muscle and pancreas.,

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**Subcellular Location :** Secreted. Secreted but remains associated to cells or to the extracellular matrix unless released by heparin.

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**Expression :** Expressed in all tissues except liver. Highest levels found in heart, skeletal muscle and pancreas.

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**Tag :** hot

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**Sort :** 1453

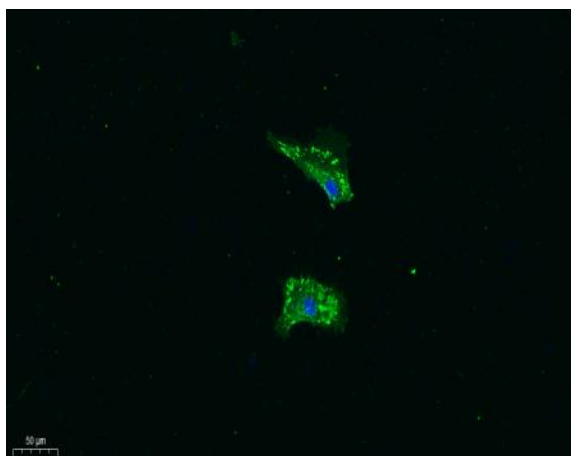
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**No3 :** ab185696

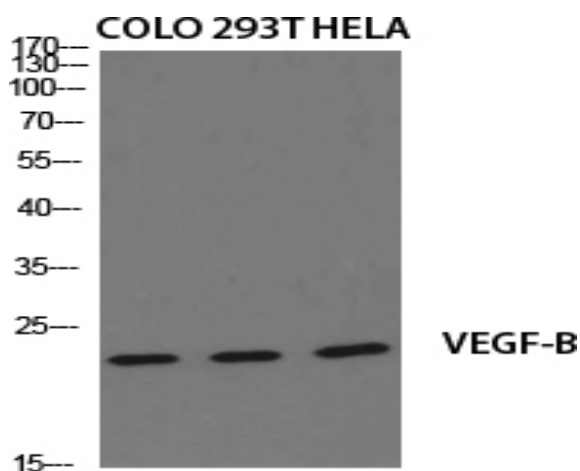
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<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

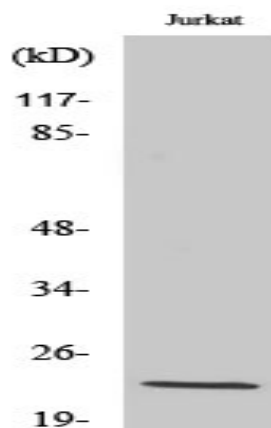
## Products Images



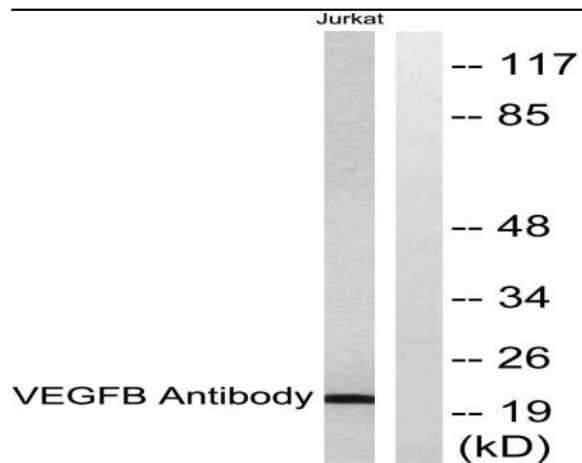
Immunofluorescence analysis of A549. 1,primary Antibody was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 488 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



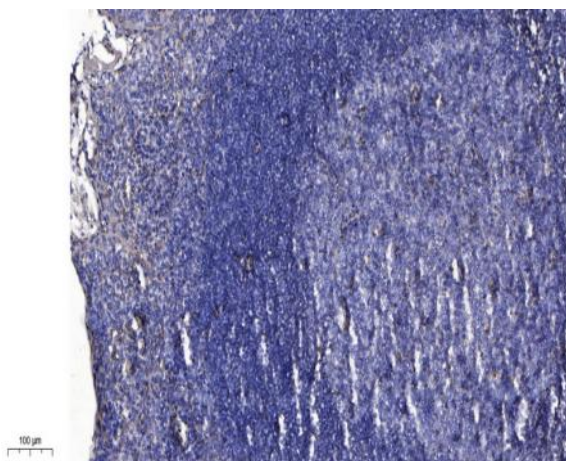
Western Blot analysis of various cells using VEGF-B Polyclonal Antibody diluted at 1:2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of Jurkat cells using VEGF-B Polyclonal Antibody diluted at 1:2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysates from Jurkat cells, using VEGFB Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).