

# Immunotag™ VEGF-B Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT5486
Product Description	Immunotag™ VEGF-B Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	VEGF-B
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from Vascular endothelial growth factor B at AA range: 91-140
Specificity	VEGF-B Polyclonal Antibody detects endogenous levels of VEGF-B protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	VEGFB
Accession No.	P49765 P49766 O35485
Alternate Names	VEGFB; VRF; Vascular endothelial growth factor B; VEGF-B; VEGF-related factor; VRF

## Antibody Specification

Description	vascular endothelial growth factor B(VEGFB) Homo sapiens 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],
Cell Pathway/ Category	Cytokine-cytokine receptor interaction,mTOR,Focal adhesion,Pathways in cancer,Renal cell carcinoma,Pancreatic cancer,Bladder cancer,
Protein Expression	Fetal brain,Fibrosarcoma,Tonsil,
Subcellular Localization	extracellular region,extracellular space,intracellular,membrane,platelet alpha granule lumen,
Protein Function	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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.