VEGF Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	VEGF, Polyclonal Antibody
Full Product Name	GOAT ANTI HUMAN VEGF:Biotin
Product Gene Name	anti-VEGF antibody
Clonality	Polyclonal
Isotype	IgG
Host	Goat
Form/Format	Biotin Purified IgG conjugated to Biotin - lyophilised
Concentration	IgG concentration 0.1 mg/ml after reconstitution. (lot specific)
Preparation and Storage	Prior to reconstitution store at 4 degree C. Following reconstitution store at -20 degree C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of reconstitution.
Molecular Weight	34,406 Da
OMIM	192240
3D Structure	ModBase 3D Structure for P15692
Reconstitution	Reconstitute with 0.5ml sterile PBS containing 0.1% Bovine Serum Albumin. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. MyBioSource recommends that the vial is gently mixed after reconstitution. For long term storage, the addition of 0.09% sodium azide is recommended.
Buffer Solution	Phosphate buffered saline
Antiserum Preparation	Antisera to human VEGF were raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Target Species	Human
Applications Tested/Suitable for anti-VEGF antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-VEGF antibody	ELISA: This biotinylated human VEGF antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our purified human VEGF antibody as the capture reagent and recombinant human VEGF as the standard. Western Blot: This antibody may be used in Western Blotting under either reducing or non-reducing conditions with recombinant human VEGF as the positive control. **ELISA:** Minimum Dilution: 0.25; Maximum Dilution: 1.0ug/ml **Western Blotting:** Minimum Dilution: 0.1; Maximum Dilution: 0.2ug/ml
Related Product Information for anti-VEGF antibody	Goat anti Human VEGF antibody specifically recognizes human VEGF (vascular endothelial growth factor), a heparin-binding cytokine and member of the PDGF/VEGF growth factor family, which exists as several splice variants of the VEGF gene. VEGF, originally named vascular permeability factor due to its ability to act as vasodilator and increase microvascular permeability, is a potent stimulator of angiogenesis of both normal and cancerous cells, and acts as a regulator of vasculogenesis. The functional forms of VEGF exist as disulphide-linked homodimers and are classified according to the number of amino acid residues within a constitutive polypeptide chain e.g VMBS23026165. All VEGF family members act through binding to the tyrosine kinase receptors VEGFR-1 (Flt-1) and VEGFR-2 (KDR/CD309), whilst the closely-related VEGF-C and VEGF-D, can also bind to VEGFR-3 (Flt-4).

Other Notes	Small volumes of anti-VEGF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VEGF purchase	MBS220220 is an antibody targeting VEGF. Also known as GOAT ANTI HUMAN VEGF:Biotin. Host: Goat.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VEGF. It may not necessarily be applicable to this product.

NCBI GI #	76781480
NCBI GeneID	7422
NCBI Accession #	NP_001020537.2
UniProt Primary Accession #	P15692
UniProt Secondary Accession #	O60720; O75875; Q074Z4; Q16889; B5BU86; H0Y2S8; H0Y407; H0Y414; H0Y462; H0Y8N2; H3BLW7
UniProt Related Accession #	P15692
GenBank Nucleotide #	NM_001025366.2
NCBI Official Full Name	vascular endothelial growth factor A isoform a
NCBI Official Synonym Full Names	vascular endothelial growth factor A
NCBI Official Symbol	VEGFA
NCBI Official Synonym Symbols	VPF; VEGF; MVCD1
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Synonym Protein Names	Vascular permeability factor; VPF
Protein Family	VEGF coregulated chemokine
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF
UniProt Entry Name	VEGFA_HUMAN
NCBI Protein Information	vascular endothelial growth factor A; vascular permeability factor
NCBI Summary for VEGF	This gene is a member of the PDGF/VEGF growth factor family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for VEGF	Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.
Research Articles on VEGF	**1.** High VEGF-A expression is associated with drug resistance in colorectal carcinoma.
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