VEGFA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VEGFA, Polyclonal Antibody
Full Product Name	VEGFA, ID (VEGFA, VEGF, Vascular endothelial growth factor A, Vascular permeability factor) (MaxLight 405)
Product Gene Name	anti-VEGFA antibody
Product Synonym Names	VEGFA; VEGF; Vascular endothelial growth factor A; Vascular permeability factor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human VEGFA.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	27kDa
Chromosome Location	Chromosome: 6; NC_000006.11 (43737946..43754224). Location: 6p12
OMIM	192240
3D Structure	ModBase 3D Structure for P15692
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 140-168 in the Central region of human VEGFA, UniProt Accession #NP_001020537.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-VEGFA antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-VEGFA antibody	Western Blot (WB), FLISA
Application Notes for anti-VEGFA antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-VEGFA antibody	MBS6362449 is an antibody targeting VEGFA. Also known as VEGFA, ID (VEGFA, VEGF, Vascular endothelial growth factor A, Vascular permeability factor) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-VEGFA antibody	Shrivastava-Ranjan, P., et al. J. Virol. 84(21):11227-11234(2010). Kim, Y.H., et al. Gynecol. Oncol. 119(2):232-236(2010). Yang, Y., et al. Exp. Biol. Med. (Maywood) 235(10):1204-1211(2010). Huez, I., et al. Mol. Endocrinol. 15(12):2197-2210(2001). Tee, M.K., et al. Biochem. J. 359 (PT 1), 219-226 (2001).

Other Notes	Small volumes of anti-VEGFA 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.

ADDITIONAL DETAILS

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

NCBI GI #	76781480
NCBI GeneID	7422
NCBI Accession #	NP_001020537.2
NCBI Related Accession #	NP_001020538.2
UniProt Primary Accession #	P15692
UniProt Secondary Accession #	O60720; O75875; Q074Z4; Q16889; Q5UB46; Q6P0P5; Q96KJ0; Q96L82; Q96NW5; Q9H1W8; B5BU86
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
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

UniProt Comments for VEGFA	Function: 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. Ref.27 Ref.30 Ref.33 Subunit structure: Homodimer; disulfide-linked. Also found as heterodimer with PGF By similarity. Subcellular location: Secreted. Note: VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a signicant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular matrix, although it may be released as a soluble form by heparin, heparinase or plasmin. Ref.26 Ref.28 Ref.32 Tissue specificity: Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed. Induction: Regulated by growth factors, cytokines, gonadotropins, nitric oxide, hypoxia, hypoglycemia and oncogenic mutations. Involvement in disease: Microvascular complications of diabetes 1 (MVCD1) [MIM:603933]: Pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.Note: Disease susceptibility is associated with variations affecting the gene represented in this entry. Sequence similarities: Belongs to the PDGF/VEGF growth factor family. Sequence caution: The sequence AAC63102.1 differs from that shown. Reason: Erroneous initiation. The sequence AAC63143.1 differs from that shown. Reason: Unusual initiator. The initiator methionine is coded by a non-canonical CTG leucine codon.The sequence CAC19512.2 differs from that shown. Reason: Unusual initiator. The initiator methionine is coded by a non-canonical CTG leucine codon.The sequence CAC19516.2 differs from that shown. Reason: Unusual initiator. The initiator methionine is coded by a non-canonical CTG leucine codon.
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