VEGF-A Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	VEGF-A, Polyclonal Antibody
Full Product Name	VEGF-A Polyclonal Antibody
Product Gene Name	anti-VEGF-A antibody
Clonality	Polyclonal
Molecular Weight	34,406 Da
OMIM	192240
3D Structure	ModBase 3D Structure for P15692
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-VEGF-A antibody	MBS8525851 is an antibody targeting VEGF-A. Also known as VEGF-A Polyclonal Antibody.
Other Notes	Small volumes of anti-VEGF-A 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 VEGF-A. 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	Vascular endothelial growth factor
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF
NCBI Protein Information	vascular endothelial growth factor A

NCBI Summary for VEGF-A	This gene is a member of the PDGF/VEGF growth factor family. It encodes a heparin-binding protein, which exists as a disulfide-linked homodimer. This growth factor induces proliferation and migration of vascular endothelial cells, and is essential for both physiological and pathological angiogenesis. Disruption of this gene in mice resulted in abnormal embryonic blood vessel formation. This gene is upregulated in many known tumors and its expression is correlated with tumor stage and progression. Elevated levels of this protein are found in patients with POEMS syndrome, also known as Crow-Fukase syndrome. Allelic variants of this gene have been associated with microvascular complications of diabetes 1 (MVCD1) and atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been described. There is also evidence for alternative translation initiation from upstream non-AUG (CUG) codons resulting in additional isoforms. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is antiangiogenic. Expression of some isoforms derived from the AUG start codon is regulated by a small upstream open reading frame, which is located within an internal ribosome entry site. [provided by RefSeq, Nov 2015]
UniProt Comments for VEGF-A	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. Binding to NRP1 receptor initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development ().
Research Articles on VEGF-A	**1.** The VEGF/sVEGF-R1 ratio in follicular fluid on the day of oocyte retrieval in women undergoing IVF procedure, regardless of the type of stimulation protocol, might predict the risk of developing ovarian hyperstimulation syndrome (OHSS). To the best of our knowledge this is the first paper in the literature to show interplay among VEGF, EG-VEGF and sVEGF-R1 and the correlation between their concentration and OHSS risk.
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