Vascular Endothelial Growth Factor D (VEGF-D) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Vascular Endothelial Growth Factor D (VEGF-D), ELISA Kit
Full Product Name	Monkey Vascular Endothelial Growth Factor D ELISA Kit
Product Gene Name	VEGF-D elisa kit
Species Reactivity	Monkey
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	40,444 Da
Chromosome Location	Chromosome: X; NC_000023.10 (15363713..15402535, complement). Location: Xp22.31
OMIM	300091
3D Structure	ModBase 3D Structure for O43915
Related Product Information for VEGF-D elisa kit	MBS035527 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Vascular Endothelial Growth Factor D (VEGF-D) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing VEGF-D. The ELISA analytical biochemical technique of the MBS035527 kit is based on VEGF-D antibody-VEGF-D antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect VEGF-D antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, VEGF-D. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of VEGF-D elisa kit 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-D. It may not necessarily be applicable to this product.

NCBI GI #	4758378
NCBI GeneID	2277
NCBI Accession #	NP_004460.1
UniProt Primary Accession #	O43915
UniProt Secondary Accession #	B2R7Z3
UniProt Related Accession #	O43915
GenBank Nucleotide #	NM_004469.4
NCBI Official Full Name	vascular endothelial growth factor D preproprotein
NCBI Official Synonym Full Names	c-fos induced growth factor (vascular endothelial growth factor D)
NCBI Official Symbol	FIGF
NCBI Official Synonym Symbols	VEGFD; VEGF-D
UniProt Protein Name	Vascular endothelial growth factor D

UniProt Synonym Protein Names	c-Fos-induced growth factor
Protein Family	Vascular endothelial growth factor
UniProt Gene Name	FIGF
UniProt Synonym Gene Names	VEGFD; VEGF-D; FIGF
UniProt Entry Name	VEGFD_HUMAN
NCBI Protein Information	vascular endothelial growth factor D
NCBI Summary for VEGF-D	The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-2 and VEGFR-3 receptors. This protein is structurally and functionally similar to vascular endothelial growth factor C. Read-through transcription has been observed between this locus and the upstream PIR (GeneID 8544) locus. [provided by RefSeq, Feb 2011]
UniProt Comments for VEGF-D	VEGFD: Growth factor active in angiogenesis, lymphangiogenesis and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in the formation of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR/FLK1) and VEGFR-3 (FLT4) receptors. Belongs to the PDGF/VEGF growth factor family. Protein type: Cytokine; Motility/polarity/chemotaxis; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: Xp22.31 Cellular Component: extracellular space; membrane; extracellular region Molecular Function: protein homodimerization activity; growth factor activity; platelet-derived growth factor receptor binding; vascular endothelial growth factor receptor 3 binding; vascular endothelial growth factor receptor binding; chemoattractant activity Biological Process: platelet activation; cell proliferation; platelet degranulation; positive chemotaxis; positive regulation of cell division; positive regulation of cell proliferation; angiogenesis; cell differentiation; vascular endothelial growth factor receptor signaling pathway; blood coagulation; induction of positive chemotaxis
Research Articles on VEGF-D	**1.** Serum vascular endothelial growth factor (VEGF)-D is significantly elevated in patients with lymphangioleiomyomatosis and is a better diagnostic marker than matrix metalloproteinase (MMP)-2, MMP-9 and ACE.
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