# VEGFD Antibody – Rabbit Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | VEGFD, Monoclonal Antibody |
| **Full Product Name** | Recombinant Anti-VEGFD Antibody, Rabbit Monoclonal |
| **Product Gene Name** | anti-VEGFD antibody |
| **Product Synonym Names** | VEGF-D/FIGF/VEGFD Antibody, Rabbit MAb; c-fos induced growth factor (vascular endothelial growth factor D); Anti-VEGF-D Antibody; Anti-VEGFD Antibody |
| **Clonality** | Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Number** | 106 |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid; 0.2um filtered solution in PBS |
| **Purity/Purification** | Protein A |
| **Specificity** | Human VEGF-D/FIGF.<br>No cross-reactivity in ELISA with Human VEGF/VEGF-A/VEGF165<br>Has cross-reactivity in ELISA with Human VEGF-C/Flt4-L |
| **Preparation and Storage** | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| **Matching Pairs** | Antibody: VEGFD Clone #106 (MBS8103205)<br>Immunogen: VEGFD (MBS8118640) |
| **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 |
| **Antibody Type** | Recombinant Antibody |
| **Immunogen** | Recombinant Human VEGF-D protein |
| **Conjugation** | Unconjugated |
| **Preparation** | This antibody was obtained from a rabbit immunized with purified, recombinant Human VEGF-D (rh VEGF-D) . |
| **Applications Tested/Suitable for anti-VEGFD antibody** | ELISA (EIA) |
| **Application Notes for anti-VEGFD antibody** | ELISA: 1:5000-1:10,000 |

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| **Related Product Information for anti-VEGFD antibody** | Vascular endothelial growth factor D (VEGF-D), also known as C-fos induced growth factor (FIGF), belongs to the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family. FIGF protein is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. FIGF protein is secreted as a non-covelent homodimer in an antiparallel fashion. Human FIGF protein is expressed in adult lung, heart, muscle, and small intestine, and is most abundantly expressed in fetal lungs and skin. FIGF protein is structurally and functionally similar to VEGF-C. Therefore, FIGF protein binds and activates VEGFR-2 (Flk1) and VEGFR-3 (Flt4) receptors, and may particularly be involved in cancers, such as breast cancer, epithelial ovarian carcinoma and so on. |
| **Product References and Citations for anti-VEGFD antibody** | Avantaggiato V, et al. (1998) Embryonic expression pattern of the murine figf gene, a growth factor belonging to platelet-derived growth factor/vascular endothelial growth factor family. Mech Dev. 73(2):221-4.Rocchigiani M, et al. (1998) Human FIGF: cloning, gene structure, and mapping to chromosome Xp22.1 between the PIGA and the GRPR genes. Genomics 47(2):207-16.Karpanen T, et al. (2008) VEGF-D: a modifier of embryonic lymphangiogenesis. Blood. 112(5): 1547-8. |
| **Other Notes** | Small volumes of anti-VEGFD 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 VEGFD purchase** | MBS8103205 is an antibody targeting VEGFD. Also known as Recombinant Anti-VEGFD Antibody, Rabbit Monoclonal. Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

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

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| **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 VEGFD** | 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] |

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| **UniProt Comments for VEGFD** | 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.<br><br>Protein type: Cytokine; Secreted, signal peptide; Motility/polarity/chemotaxis; Secreted<br><br>Chromosomal Location of Human Ortholog: Xp22.31<br><br>Cellular Component: extracellular space; membrane; extracellular region<br><br>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<br><br>Biological Process: cell proliferation; platelet activation; platelet degranulation; positive chemotaxis; positive regulation of cell division; positive regulation of cell proliferation; angiogenesis; blood coagulation; vascular endothelial growth factor receptor signaling pathway; cell differentiation; induction of positive chemotaxis |
| **Research Articles on VEGFD** | **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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