

Mouse VEGF (Vascular Endothelial Growth Factor) Monoclonal Antibody | anti-VEGFA antibody

VEGF (Vascular Endothelial Growth Factor) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62714	Mouse	Dog, Human, Mouse, Rabbit, Rat	Immunohistochemistry

PRODUCT SYNONYMS

VEGF (Vascular Endothelial Growth Factor); Monoclonal Antibody; VEGF (Vascular Endothelial Growth Factor) Mouse Monoclonal Antibody; MVCD1; Vascular Endothelial Growth Factor A (VEGF-A); Vascular Permeability Factor (VPF); VEGFA; anti-VEGFA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Dog, Human, Mouse, Rabbit, Rat
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	VEGF/1063
Specificity	This MAb recognizes proteins of 19-22kDa (reducing) and 38kDa-44kDa (non-reducing), identified as various isoforms of Vascular Endothelial Growth Factor or Vascular Permeability Factor (VEGF/VPF). It is highly specific to VEGF, which is a homodimeric, disulfide-linked glycoprotein with a close homology to platelet derived growth factor (PDGF). There are multiple isoforms of VEGF containing 206-, 189-, 165-, and 121-amino acid residues. The smaller two isoforms, VEGF165 and VEGF121, are secreted proteins and act as diffusible agents, whereas the larger two remain cell associated. VEGF/VPF plays an important role in angiogenesis, which promotes tumor progression and metastasis.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	412
Applicable Applications for anti-VEGFA antibody	IHC (Immunohistochemistry)
Cellular Localization	Secreted
Immunogen	Human VEGF189 recombinant protein
Positive Control	Breast or ovarian carcinomas., Tumor cells in astrocytomas
Research Areas	Cardiovascular, Hypoxia, Immunology, BBB VCAM-1 Signaling, Bladder Cancer, Colon Cancer, Cytokine Signaling, Infectious Disease, Neural Stem Cells, Signal Transduction, Stem Cell Differentiation, Transcription Factors
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE

SDS-PAGE Analysis Purified VEGF Mouse Monoclonal Antibody (VEGF/1063). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with VEGF Mouse Monoclonal Antibody (VEGF/1063).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human tonsil stained with VEGF Mouse Monoclonal Antibody (VEGF/1063).

ADDITIONAL INFORMATION

References	Tischer, E., et al. 1991. The human gene for vascular endothelial growth factor. Multiple protein forms are encoded through alternative exon splicing. J. Biol. Chem. 266: 11947-11954. Berse, B., et al. 1992. Vascular permeability factor (vascular endothelial growth factor) gene is expressed differentially in normal tissues, macrophages and tumors. Mol. Biol. Cell 3: 211-220. Folkman, J., et al. 1989. Induction of angiogenesis during the transition from hyperplasia to neoplasia. Nature 339: 58-61
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NCBI AND UNIPROT INFORMATION

NCBI GI #	76781480
NCBI GeneID	7422
NCBI Accession #	NP_001020537.2
NCBI GenBank Nucleotide #	NM_001025366.2
UniProt Accession #	P15692; O60720; O75875; Q074Z4; Q16889; B5BU86; H0Y2S8; H0Y407; H0Y414; H0Y462; H0Y8N2; H3BLW7
Molecular Weight	19-22kDa (reducing); 38kDa-44kDa (non-reducing)
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
NCBI Protein Information	vascular endothelial growth factor A
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF
UniProt Entry Name	VEGFA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.