

**Functional VEGF-A (human) Antibody, mAb**  
Catalog # ADP0019**Specification****Functional VEGF-A (human) Antibody, mAb - Product Information**

Application	WB, E
Primary Accession	<a href="#">P15692</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Gene Source	Human
Application Note	,E(1-15 µg/ml),Functional Application,Neutralization,WB(2-10 µg/ml),
Calculated MW	43597

**Functional VEGF-A (human) Antibody, mAb - Additional Information**

Gene ID 7422

**Other Names**

Vascular Endothelial Growth Factor-A; VPF

**Format**

Lyophilized.

**Reconstitution & Storage**

Stable for at least 6 months after receipt when stored at -20°C.

**Precautions**

Functional VEGF-A (human) Antibody, mAb is for research use only and not for use in diagnostic or therapeutic procedures.

**Functional VEGF-A (human) Antibody, mAb - Protein Information**

Name VEGFA

Synonyms VEGF

**Function**

[N-VEGF]: Participates in the induction of key genes involved in the response to hypoxia and in the induction of angiogenesis such as HIF1A (PubMed:<a href="http://www.uniprot.org/citations/35455969" target="\_blank">35455969</a>). Involved in protecting cells from hypoxia- mediated cell death (By similarity).

**Cellular Location**

[N-VEGF]: Cytoplasm. Nucleus. Note=Cytoplasmic in normoxic conditions and localizes to the nucleus under hypoxic conditions [Isoform L-VEGF189]: Endoplasmic reticulum. Golgi apparatus. Secreted, extracellular space, extracellular matrix [Isoform VEGF165]: Secreted

**Tissue Location**

Higher expression in pituitary tumors than the pituitary gland. [Isoform VEGF165]: Widely expressed. [Isoform VEGF206]: Not widely expressed.

**Functional VEGF-A (human) Antibody, mAb - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Functional VEGF-A (human) Antibody, mAb - Images****Functional VEGF-A (human) Antibody, mAb - Background**

Human vascular endothelial growth factor (VEGF 165) is produced as a homodimer. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. VEGF-A is a specific mitogen for vascular endothelial cells and a strong angiogenic factor in vivo. In addition to its action as a mitogen it is a potent vascular permeability factor (VPF) in vivo. It is also a chemoattractant molecule for monocytes and endothelial cells. It induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels.