

**VEGFA / VEGF Antibody (clone VG-1)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS12842****Specification**

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**VEGFA / VEGF Antibody (clone VG-1) - Product Information**

Application	IHC
Primary Accession	<a href="#">P15692</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	27kDa KDa

**VEGFA / VEGF Antibody (clone VG-1) - Additional Information****Gene ID** 7422**Other Names**

Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGFA, VEGF

**Target/Specificity**

the 121, 165, and 189 VEGF isoforms of Human origin

**Reconstitution & Storage**

Store at +4°C. DO NOT FREEZE.

**Precautions**

VEGFA / VEGF Antibody (clone VG-1) is for research use only and not for use in diagnostic or therapeutic procedures.

**VEGFA / VEGF Antibody (clone VG-1) - 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:&lt;a href="http://www.uniprot.org/citations/35455969" target="\_blank"&gt;35455969&lt;/a&gt;). 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**

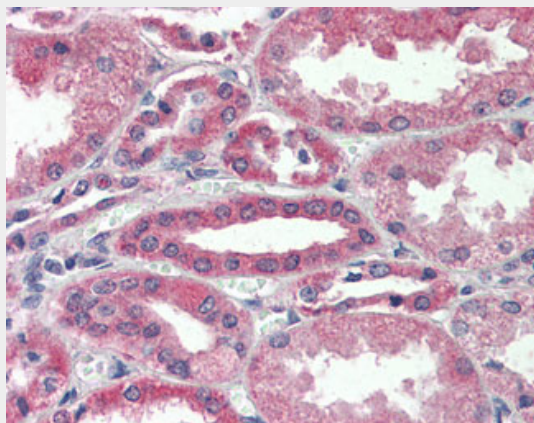
Higher expression in pituitary tumors than the pituitary gland. [Isoform VEGF165]: Widely expressed. [Isoform VEGF206]: Not widely expressed.

### **VEGFA / VEGF Antibody (clone VG-1) - 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](#)

### **VEGFA / VEGF Antibody (clone VG-1) - Images**



Anti-VEGFA antibody IHC of human kidney.

### **VEGFA / VEGF Antibody (clone VG-1) - Background**

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.

### **VEGFA / VEGF Antibody (clone VG-1) - References**

- Leung D.W., et al. *Science* 246:1306-1309(1989).  
Keck P.J., et al. *Science* 246:1309-1312(1989).  
Tischer E., et al. *J. Biol. Chem.* 266:11947-11954(1991).  
Houck K.A., et al. *Mol. Endocrinol.* 5:1806-1814(1991).  
Weindel K., et al. *Biochem. Biophys. Res. Commun.* 183:1167-1174(1992).