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Functional VEGF-A (human) Antibody, mAb

Catalog # ADP0019

Specification

Functional VEGF-A (human) Antibody, mAb - Product Information

Application	**WB, E**
Primary Accession	P15692
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**
Dilution	**WB~~1:1000 E~~N/A**

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:35455969). 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 Cytomety
- Cell Culture

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

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

Human vascular endothelial erowth 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.