

Anti-VEGFA Antibody [PSH19-17] - BSA and Azide free

HA751696



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Green monkey
Applications:	WB
Molecular Wt:	Predicted band size: 44 kDa
Clone number:	PSH19-17

Description: Vascular endothelial growth factor A (VEGF-A) is a protein that in humans is encoded by the VEGFA gene. This gene is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis, and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. VEGF-A shows prominent activity with vascular endothelial cells, primarily through its interactions with the VEGFR1 and -R2 receptors found prominently on the endothelial cell membrane. However, it does have effects on a number of other cell types (e.g., stimulation monocyte/macrophage migration, neurons, cancer cells, kidney and epithelial cells). In vitro, VEGF-A has been shown to stimulate endothelial cell mitogenesis and cell migration. VEGF-A is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor.

Positive control: U-87 MG cell lysate, NCI-H441 cell lysate, EA.hy926 cell lysate, SH-SY5Y cell lysate, MDA-MB-231 cell lysate, A431 cell lysate, COS-1 cell lysate, Neuro-2a cell lysate, bEnd.3 cell lysate, RAW264.7 cell lysate, C6 cell lysate.

Subcellular location: Secreted.

Database links: SwissProt: P15692 Human | Q00731 Mouse | P16612 Rat

Recommended Dilutions:

WB 1:5,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

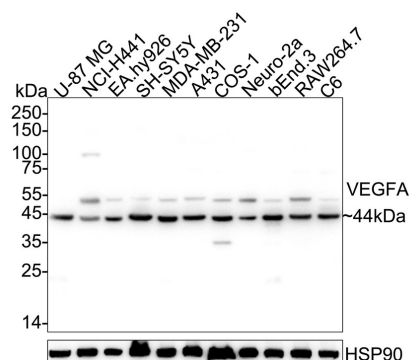
Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of VEGFA on different lysates with Rabbit anti-VEGFA antibody (HA751696) at 1/5,000 dilution.



Lane 1: U-87 MG cell lysate
 Lane 2: NCI-H441 cell lysate
 Lane 3: EA.hy926 cell lysate
 Lane 4: SH-SY5Y cell lysate
 Lane 5: MDA-MB-231 cell lysate
 Lane 6: A431 cell lysate
 Lane 7: COS-1 cell lysate
 Lane 8: Neuro-2a cell lysate
 Lane 9: bEnd.3 cell lysate
 Lane 10: RAW264.7 cell lysate
 Lane 11: C6 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 44 kDa

Observed band size: 44 kDa

Exposure time: 10 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751696) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. White AL et al. VEGFA Isoforms as Pro-Angiogenic Therapeutics for Cerebrovascular Diseases. Biomolecules. 2023 Apr
2. Ni H et al. Cardamonin attenuates cerebral ischemia/reperfusion injury by activating the HIF-1alpha/VEGFA pathway. Phytother Res. 2022 Apr

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