



Product Specification Sheet

Vascular endothelial growth factor A (VEGFA) Antibody

□ Cat # VEGFA11-S

Rabbit Anti-Human VEGFA antibody

SIZE: 100 ul

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. Binding to NRP1 receptor initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development

Source of Antigen or Antibodies

Uniprot: P15692

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate and Protein G purification.

Immunogen: Full length recombinant Human VEGFA206 (AA: 27-232)

Species Reactivity: Human

Cross reactivity: The full length protein exhibits >90% homology with most species of monkey. 89% Sheep and Pig. 88% Goat, Dog, Horse, and Cat. 84% with Mouse and Rat. Due to the multiple epitopes available on a full length protein and the high homology between species, it is expected to react with the above listed species. Species reactivity has only been confirmed in-house on Human samples.

Subcellular Location: Secreted

Tissue specificity: Isoform VEGF189, VEGF165, and VEGF121 are widely expressed. Isoform VEGF206 and VEGF145 are not widely expressed.

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (ADI cat#20320)

Negative Control: Non-immune Rabbit IgG (ADI cat# 20009-1).

Form & Storage of Antibodies

Total IgG Fraction

□ Solution
Concentration: 1.8 mg/ml
Volume: 100 ul
Supplied in PBS pH 7.4 +0.05% sodium azide

Lyophilized powder

□ Reconstitute powder in 100 ul distilled water

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

Recommended Usage

Western Blotting: 1:1,000-1:2,500

Theoretical band size: The antibody was raised against a full length protein which contains epitopes against all known VEGF isoforms.

*Above concentrations are a suggestion and user's must optimize assay based on their conditions. Antibody may work in other applications such as Flow Cytometry, ICC, or IP. These methods have not been tested by ADI.

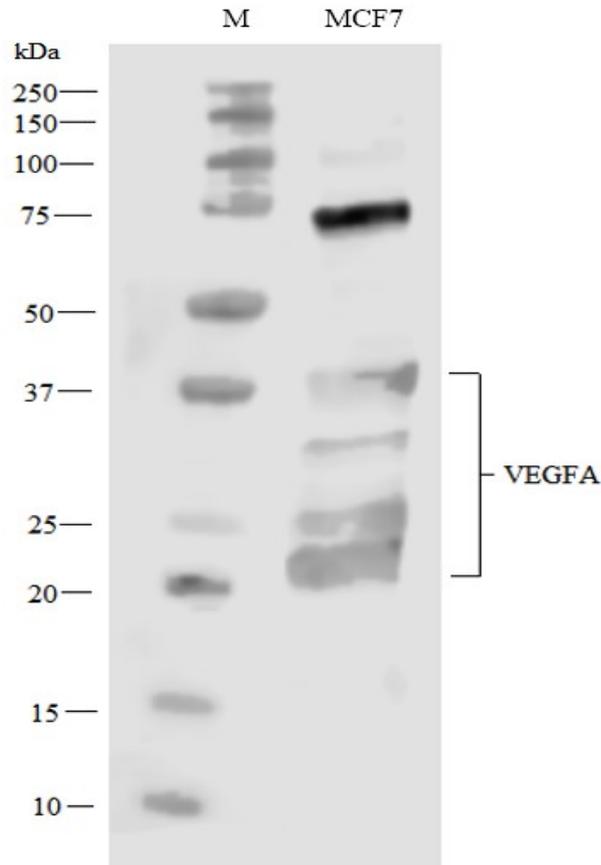
**This product is for In vitro research use only.*

Related materials available from ADI

ADI also supplies recombinant proteins and ELISA Kits against various species and isoforms of VEGF as well as ELISA Kits against therapeutic drugs against VEGF.

VEGFA11-S

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25 ug of a MCF7 lysate was heated for 5 minutes at 95°C then separated on an 'Any kD' SDS-PAGE gel (Biorad). The gel was run for ~1 hour and 30 minutes at 100V and transferred to a 0.2 um nitrocellulose membrane using the low MW settings on a Transblot Turbo (Biorad). The blot was blocked for 1 hour at room temperature with 1% Fish plasma (Aquablock, EastCoastBio). **VEGFA11-S** was diluted 1;1,000 with TBST+0.1% BSA incubated overnight at 4°C. Blot was washed with TBS-T 3 times for 5 minutes each. Goat anti-rabbit IgG HRP (**ADI cat#20320**) diluted 1:10,000 (50 ng/ml) in TBST+0.1% BSA and incubated for 1 hour at room temperature. The blot was washed with TBS-T 3 times for 5 minutes each. The blot was incubated with ADI Femto ECL substrate (**ADI cat#80210**) for 5 minutes then imaged on a CCD imaging system (LI-COR, C-DIGIT).