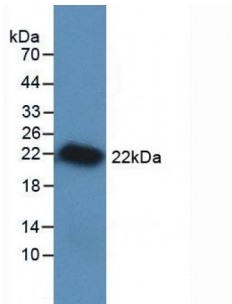


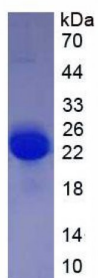
Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

Rat Vascular Endothelial Growth Factor A (VEGFA) Protein (Active)

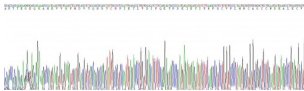
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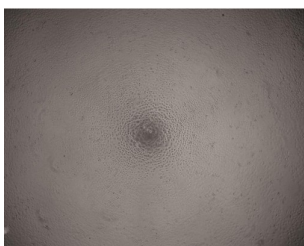
Western blot analysis of recombinant Rat VEGFA, using VEGFA antibody.



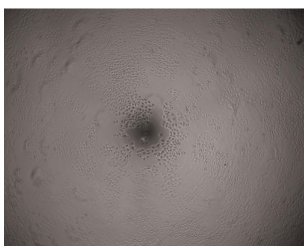
SDS-PAGE analysis of recombinant Rat VEGFA.



Gene sequencing extract of Rat VEGFA.

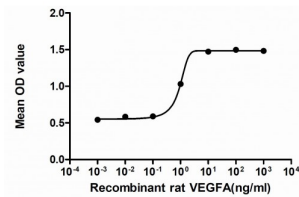


Cell proliferation analysis of ECV304 cells cultured in serum-free DMEM after stimulation with 10 ng/ml VEGFA for 72 h.



Cell proliferation analysis of unstimulated ECV304 cells cultured in serum-free DMEM for 72 h.

Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
 Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com



Dose-effect analysis of VEGFA on ECV304 cells.

Vascular Endothelial Growth Factor A (VEGFA) Protein (Active) is an active protein from Rat.

Target: Vascular Endothelial Growth Factor A (VEGFA)

Origin: Rat

Host: 293F cell

Tested Applications: SDS-PAGE, WB

Purity: > 98%

Form: Lyophilized

Reconstitution: Reconstitute in PBS (pH 7.4) to a concentration of 0.1-1.0 mg/ml. Do not vortex.

Conjugation: Unconjugated

Storage: Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.

Molecular Weight: 20.8 kDa (Predicted Molecular Mass), 22 kDa (Accurate Molecular Mass)

Swiss Prot: [P16612](#)

Sequence Fragment: Ala27-Arg190

Tag: N-terminal His-tag

Activity: Active

Biological Activity: VEGFA is known to induce vascular permeability and growth, promote monocyte/macrophage migration, and inhibit cell apoptosis. To test the effect of VEGFA on cell proliferation of the ECV304 endothelium cell line, cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of VEGFA. After incubation for 72 h, cells were observed using an inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ l of CCK-8 solution was added to each well of the plate, which was incubated for 1-4 hours at 37°C. The absorbance was then measured at 450 nm using a microplate reader. Cell proliferation of ECV304 cells after incubation with VEGFA for 72 h observed by inverted microscope is shown in Figure 4 and Figure 5. The dose-effect curve of VEGFA is shown in Figure 6, showing that VEGFA significantly promoted cell proliferation of ECV304 cells. The ED50 for this effect is typically 5.58 to 9.98 ng/ml.

Concentration: Prior to lyophilization: 200 μ g/ml

Buffer: Prior to lyophilization: PBS, pH 7.4, containing 0.01% Sarcosyl, 1 mM DTT, 5% Trehalose and Proclin-300.

Note: This product is for research use only.