

## ARG56741 anti-VEGF antibody (Biotin)

Package: 50 µg  
Store at: 4°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Biotin-conjugated Rabbit Polyclonal antibody recognizes VEGF  |
| Tested Reactivity   | Rat   |
| Tested Application  | ELISA, WB   |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | VEGF  |
| Species             | Rat   |
| Immunogen           | E.coli derived Recombinant Rat VEGF.<br>(MAPTTEGEQK AHEVVKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP<br>TSESNVTMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKHCEPC SERRKHLFVQ DPQTCKCSCK<br>NTDSRCKARQ LELNERTCRC DKPRR) |
| Conjugation         | Biotin  |
| Alternate Names     | MVCD1; Vascular permeability factor; VEGF-A; VPF; VEGF; Vascular endothelial growth factor A  |

### Application Instructions

| Application table | Application  | Dilution   |
|-------------------|--|--|
|                   | ELISA  | Direct: 0.25 - 1.0 µg/ml<br>Sandwich: 0.25 - 1.0 µg/ml with ARG56631 as a capture antibody |
|                   | WB   | 0.1 - 0.2 µg/ml  |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |  |

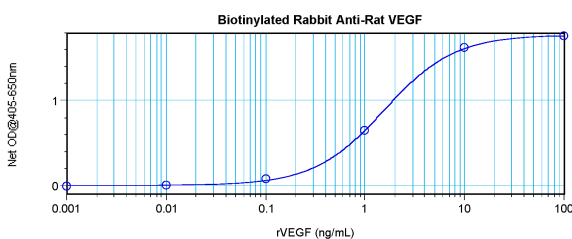
### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Purified by affinity chromatography.   |
| Buffer              | PBS (pH 7.2)   |
| Concentration       | 1 mg/ml  |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

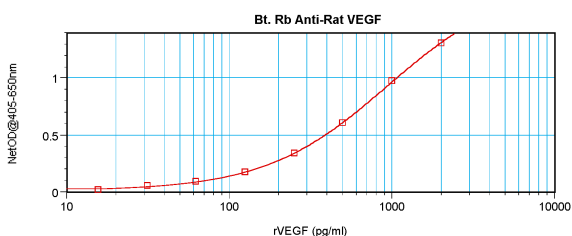
|                |  |
|----------------|--|
| Database links | <a href="#">GeneID: 83785 Rat</a><br><a href="#">Swiss-port # P16612 Rat</a>   |
| Gene Symbol    | Vegfa  |
| Gene Full Name | vascular endothelial growth factor A   |
| Background     | This gene is a member of the PDGF/VEGF growth factor 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. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms. [provided by RefSeq, Jul 2008] |
| Function       | 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. [UniProt]  |
| Highlight      | Related products:<br><a href="#">VEGF antibodies: VEGF ELISA Kits: VEGF Duos / Panels: VEGF recombinant proteins: Anti-Rabbit IgG secondary antibodies:</a><br>Related news:<br><a href="#">The role of HDGF in tumor angiogenesis</a>   |
| Calculated Mw  | 27 kDa   |

## Images



ARG56741 anti-VEGF antibody (Biotin) standard curve image

Direct ELISA: ARG56741 anti-VEGF antibody (Biotin) at 0.25 - 1.0  $\mu$ g/ml results of a typical standard run with optical density.



ARG56741 anti-VEGF antibody (Biotin) standard curve image

Sandwich ELISA: ARG56741 anti-VEGF antibody (Biotin) as a detection antibody at 0.25 - 1.0  $\mu$ g/ml combined with ARG56631 anti-VEGF antibody as a capture antibody. Results of a typical standard run with optical density.