Datasheet for ABIN1043812

# anti-VEGFA antibody (Biotin)

1 Image | 3 Publications

Go to Product page

## Overview

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| Quantity: | 100 µg |
| Target: | VEGFA |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This VEGFA antibody is conjugated to Biotin |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC) |

## Product Details

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| Purpose: | VEGF Antibody Biotin Conjugated |
| Immunogen: | Immunogen: VEGF Antibody Biotin Conjugated was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human VEGF-165 protein. Immunogen Type: Recombinant Protein |
| Isotype: | IgG |
| Cross-Reactivity (Details): | This purified antibody has been heated to 56 °C for 30 minutes. |
| Characteristics: | Synonyms: rabbit anti-VEGF Biotin Conjugated antibody, rabbit anti-VEGF-165 Biotin Conjugated antibody, Vascular endothelial growth factor A, VEGF-A, VEGF-165, VEGF165, VEGF isoform L, Vascular permeability factor, VPF |
| Purification: | Biotin Conjugated VEGF Antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. |

## Target Details

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| Target: | VEGFA |
| Alternative Name: | VEGFA (VEGFA Products) |
| Background: | Background: VEGF (Vascular Endothelial Growth Factor A) is a homodimeric, disulfide-linked glycoprotein involved in angiogenesis which promotes tumor progression and metastasis. It exhibits potent mitogenic and permeability inducing properties specific for the vascular endothelium. Of the four isoforms of VEGF, the smaller two, VEGF 165 and VEGF 121, are secreted proteins and act as diffusible agents, whereas the larger two (VEGF 189 and VEGF 206) remain cell associated. The sequence of this isoform differs from the canonical sequence as follows: 141-141: K → *N and 142-182: missing. This isoform is often found as a disulfide linked homodimer.* |
| Gene ID: | 7422 |
| NCBI Accession: | NP_001165097 |
| UniProt: | P15692 |
| Pathways: | RTK Signaling, Glycosaminoglycan Metabolic Process, Regulation of Cell Size, Tube Formation, Signaling Events mediated by VEGFR1 and VEGFR2, Platelet-derived growth Factor Receptor Signaling, VEGFR1 Specific Signals, VEGF Signaling |

## Application Details

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| Application Notes: | Immunohistochemistry Dilution: 1:500-1:2,500<br>Application Note: VEGF conjugated antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 22 kDa in size corresponding to monomeric human VEGF-165 protein by western blotting in the appropriate cell lysate or extract.<br>Western Blot Dilution: 1:2,000 - 1:10,000<br>ELISA Dilution: 1:10,000 - 1:50,000 |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Reconstitution Volume: 100 µL<br>Reconstitution Buffer: Restore with deionized water (or equivalent) |
| Buffer: | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |

## Handling

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| | Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free<br>Preservative: 0.01 % (w/v) Sodium Azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store Biotin Conjugated VEGF Antibody at 4° C prior to restoration. For extended storage aliquot Antibody and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| Expiry Date: | 12 months |

## Publications

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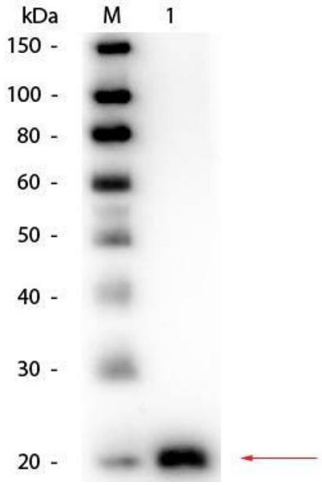
| Product cited in: | Rigopoulos, Tsiambas, Lazaris, Kavantzas, Papazachariou, Kravvaritis, Tsounis, Koliopoulou, Athanasiou, Karameris, Manaios, Sergentanis, Patsouris: "Deregulation of EGFR/VEGF/HIF-1a signaling pathway in colon adenocarcinoma based on tissue microarrays analysis." in: **Journal of B.U.ON. : official journal of the Balkan Union of Oncology**, Vol. 15, Issue 1, pp. 107-15, ( 2010) (PubMed).<br><br>Sun, Hu, Huang, Chu, Zhang, She, Chen: "Brain-derived neurotrophic factor induces proliferation, migration, and VEGF secretion in human multiple myeloma cells via activation of MEK-ERK and PI3K/AKT signaling." in: **Tumour biology**, Vol. 31, Issue 2, pp. 121-8, (2010) (PubMed).<br><br>Huez, Bornes, Bresson, Créancier, Prats: "New vascular endothelial growth factor isoform generated by internal ribosome entry site-driven CUG translation initiation." in: **Molecular endocrinology (Baltimore, Md.)**, Vol. 15, Issue 12, pp. 2197-210, (2001) (PubMed). |




## Western Blotting

**Image 1.** Western Blot of Rabbit anti-VEGF-165 Antibody Biotin Conjugated. Lane 1: VEGF-165 Recombinant Protein. Load: 50 ng per lane. Primary antibody: Rabbit anti-VEGF-165 Antibody Biotin Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: HRP Streptavidin (S000-03) at 1:40,000 for 30 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 22 kDa, 22 kDa for VEGF-165 Isoform.