

**Anti-VEGF-165 (RABBIT) Antibody Biotin Conjugated**  
**VEGF Antibody Biotin Conjugated**  
**Catalog # ASR4974****Specification**

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**Anti-VEGF-165 (RABBIT) Antibody Biotin Conjugated - Product Information**

Host	Rabbit
Conjugate	Biotin
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
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.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	VEGF Antibody Biotin Conjugated was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human VEGF-165 protein.
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide

**Anti-VEGF-165 (RABBIT) Antibody Biotin Conjugated - Additional Information****Gene ID 7422****Other Names**  
7422**Purity**

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. This purified antibody has been heated to 56°C for 30 minutes. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant human VEGF-165 in cell supernatants and certain body fluids. A control of similarly diluted normal rabbit IgG is recommended.

**Storage Condition**

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.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-VEGF-165 (RABBIT) Antibody Biotin Conjugated - Protein Information**

**Name** VEGFA

**Synonyms** VEGF

**Function**

[N-VEGF]: Participates in the induction of key genes involved in the response to hypoxia and in the induction of angiogenesis such as HIF1A (PubMed:<a href="http://www.uniprot.org/citations/35455969" target="\_blank">35455969</a>). Involved in protecting cells from hypoxia- mediated cell death (By similarity).

**Cellular Location**

[N-VEGF]: Cytoplasm. Nucleus. Note=Cytoplasmic in normoxic conditions and localizes to the nucleus under hypoxic conditions [Isoform L-VEGF189]: Endoplasmic reticulum. Golgi apparatus. Secreted, extracellular space, extracellular matrix [Isoform VEGF165]: Secreted

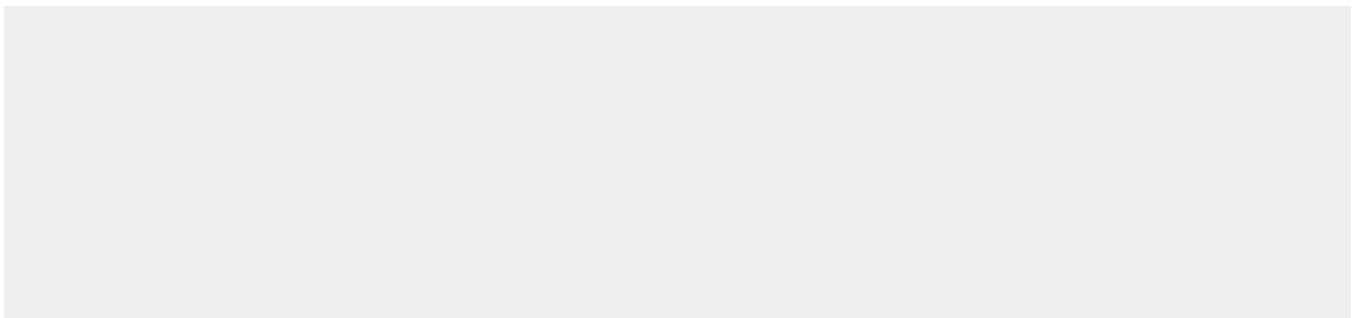
**Tissue Location**

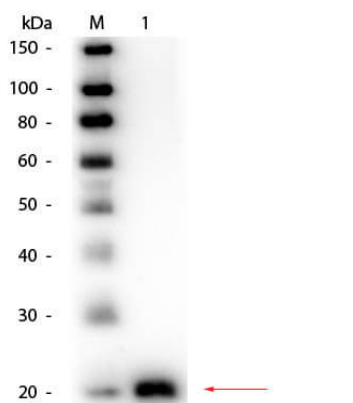
Higher expression in pituitary tumors than the pituitary gland. [Isoform VEGF165]: Widely expressed. [Isoform VEGF206]: Not widely expressed.

**Anti-VEGF-165 (RABBIT) Antibody Biotin Conjugated - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-VEGF-165 (RABBIT) Antibody Biotin Conjugated - Images**



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: MB-070 for 30 min at RT. Predicted/Observed size: 22 kDa, 22 kDa for VEGF-165 Isoform.

#### **Anti-VEGF-165 (RABBIT) Antibody Biotin Conjugated - 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.