

**Anti-VEGF Picoband Antibody**  
**Catalog # ABO11787****Specification**

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**Anti-VEGF Picoband Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P15692</a>
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Vascular endothelial growth factor A(VEGFA) detection. Tested with WB, IHC-P in Human;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-VEGF Picoband Antibody - Additional Information**

**Gene ID** 7422

**Other Names**

Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGFA, VEGF

**Calculated MW**

27042 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>Western blot, 0.1-0.5 µg/ml, Rat, Human<br>

**Subcellular Localization**

Secreted . VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a significant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular matrix, although it may be released as a soluble form by heparin, heparinase or plasmin.

**Tissue Specificity**

Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed. A higher level expression seen in pituitary tumors as compared to the pituitary gland. .

**Protein Name**

Vascular endothelial growth factor A

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E.coli-derived human VEGF recombinant protein (Position: A27-R191). Human VEGF shares 78% amino acid (aa) sequence identity with both mouse and rat VEGF.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the PDGF/VEGF growth factor family.

**Anti-VEGF Picoband Antibody - 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**

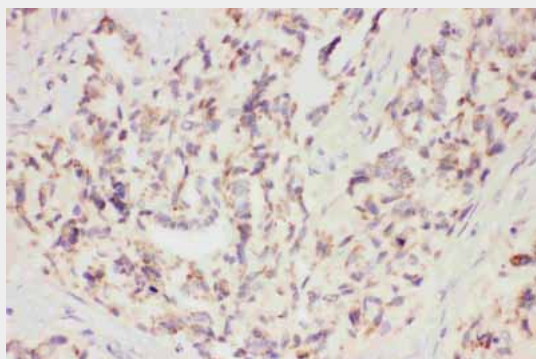
Higher expression in pituitary tumors than the pituitary gland. [Isoform VEGF165]: Widely expressed. [Isoform VEGF206]: Not widely expressed.

**Anti-VEGF Picoband Antibody - Protocols**

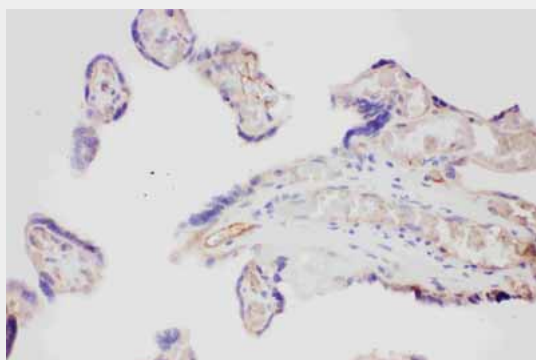
Provided below are standard protocols that you may find useful for product applications.

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

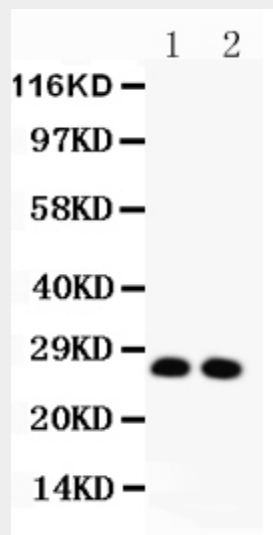
**Anti-VEGF Picoband Antibody - Images**



Anti-VEGF Picoband antibody, ABO11787-1.JPGIHC(P): Human Lung Cancer Tissue



Anti-VEGF Picoband antibody, ABO11787-2.JPGIHC(P): Human Placenta Tissue



Anti-VEGF Picoband antibody, ABO11787-3.jpgAll lanes: Anti-VEGF(ABO11787) at 0.5ug/mlLane 1: Rat Thymus Tissue Lysate at 40ugLane 2: Rat Brain Tissue Lysate at 40ugPredicted bind size: 27KDObserved bind size: 27KD

### Anti-VEGF Picoband Antibody - Background

VEGF, a homodimeric glycoprotein of relative molecular mass 45,000, is the only mitogen that specifically acts on endothelial cells. It may be a major regulator of tumor angiogenesis in vivo. It is, however, structurally related to platelet-derived growth factor. VEGF shares homology with the PDGF A chain and B chain, including conservation of all 8 cysteines found in PDGFA and PDGFB. VEGF gene contains 8 exons. VEGF induces remodeling and enhances TH2-mediated sensitization

and inflammation in the lung. And this gene also can regulate haematopoietic stem cell survival by an internal autocrine loop mechanism. What's™ more, it also stimulates neurogenesis in vitro and in vivo.