

## VEGF-A Rabbit pAb

CatalogNo: YT4870

### Key Features

#### Host Species

- Rabbit

#### MW

- 21kD(monomer),42kD(dimer)  
(Observed)

#### Reactivity

- Human,Mouse,Rat,Pig,Rabbit

#### Isotype

- IgG

#### Applications

- WB,IF,IHC,ELISA

### Recommended Dilution Ratios

**WB 1:500-1:2000.IF 1:50-200****IHC 1:100-1:300****ELISA 1:10000****Not yet tested in other applications.**

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** 1 mg/ml

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human VEGF-A. AA range:110-159**Specificity** VEGF-A Polyclonal Antibody detects endogenous levels of VEGF-A protein.

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## | Target Information

**Gene name** VEGFA

**Protein Name** Vascular endothelial growth factor A

Organism	Gene ID	UniProt ID
Human	<a href="#">7422</a> ;	<a href="#">P15692</a> ;
Mouse	<a href="#">22339</a> ;	<a href="#">Q00731</a> ;
Rat	<a href="#">83785</a> ;	<a href="#">P16612</a> ;

**Cellular 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.

**Function** 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 VEGFR1/Flt-1 and VEGFR2/Kdr receptors, heparan sulfate and heparin. Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to VEGFR2/Kdr but doesn't activate downstream signaling pathways, doesn't activate angiogenesis and inhibits tumor growth.,induction:Regulated by growth factors, cytokines, gonadotropins, nitric oxide, hypoxia, hypoglycemia and oncogenic mutations.,online information:VEGF entry,similarity:Belongs to the PDGF/VEGF growth factor family.,subcellular location: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.,subunit:Homodimer; disulfide-linked. Also found as heterodimer with PlGF.,tissue specificity:The VEGF189, VEGF-165 and VEGF-121 isoforms are widely expressed, whereas the VEGF206 and VEGF-145 are uncommon.,

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## | Validation Data

## | Contact information

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