

VEGF Rabbit Polyclonal Antibody

CatalogNo: YN5444 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human,Rat,Mouse

Applications

- IF,WB,IHC,ELISA

MW

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

Isotype

- IgG

Recommended Dilution Ratios

IF 1:50-200**WB 1:500-2000****IHC 1:50-300**

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 Recombinant Protein of VEGF of VEGFA**Specificity** VEGF protein detects endogenous levels of VEGFA

Target Information

Gene name VEGFA

Protein Name VEGFA

Organism	Gene ID	UniProt ID
Human	7422 ;	P15692 ;
Mouse		Q00731 ;
Rat		P16612 ;

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.

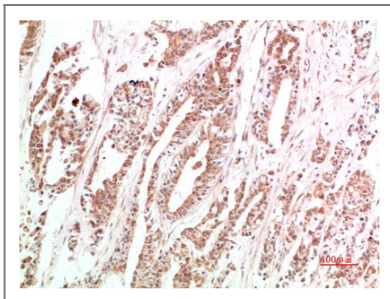
Tissue specificity

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.,

Validation Data



Immunohistochemical analysis of paraffin-embedded Human Stomach Carcinoma Tissue using VEGF Rabbit pAb diluted at 1:500.

| Contact information

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