



VEGF-A (PT0865) Mouse mAb

CatalogNo: YM4156 **Recombinant** 
Orthogonal Validated 

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, ELISA

MW

- 27kD (Calculated)
37kD (Observed)

Isotype

- IgG1, Kappa

Storage

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

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:500-2000

IF 1:100-500

ELISA 1:1000-5000

Basic Information

Clonality Monoclonal

Clone Number PT0865

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human VEGF-A. AA range: 100-200

Specificity This antibody detects endogenous levels of VEGF-A protein.

Target Information

Gene name VEGFA

Protein Name Vascular endothelial growth factor A

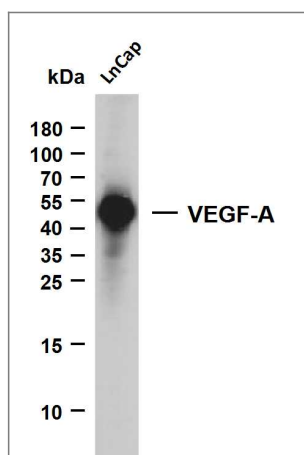
Organism	Gene ID	UniProt ID
Human	7422;	P15692;
Mouse	22339;	Q00731;
Rat	83785;	P16612;

Cellular Localization Cytoplasmic

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



Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-VEGF-A (PT2198) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: LnCap Predicted band size: 27kDa Observed band size: 42kDa

Contact information

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Mouse mAb

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