

VEGF-A (PT0865) Mouse mAb

CatalogNo: YM4156

Orthogonal Validated 

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat,

Applications

- WB, IF, ELISA

MW

- 27kD (Calculated)
- 37kD (Observed)

Isotype

- IgG1, Kappa

Recommended Dilution Ratios

WB 1:500-2000**IF 1:100-500****ELISA 1:1000-5000**

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

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

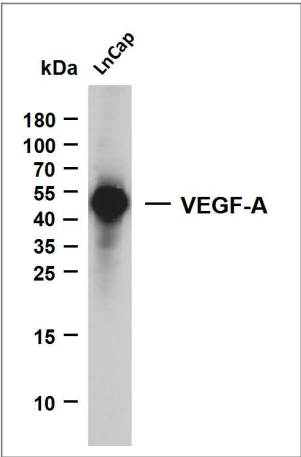
Organism	Gene ID	UniProt ID
Human	7422;	P15692;
Mouse	22339;	Q00731;
Rat	83785;	P16612;

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

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