For Research Use Only

CoraLite®594-conjugated VEGFA Polyclonal antibody

Catalog Number:CL594-19003 Featured Product 1 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL594-19003

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13500

GenBank Accession Number:
BC065522

GeneID (NCBI):
7422

UNIPROT ID:
P15692

Full Name:
vascular endothelial growth factor A

Calculated MW:
412 aa, 46 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

Positive Controls:

IF/ICC : HeLa cells,

FC (Intra) : NIH/3T3 cells,

Background Information

VEGFA, also named as VEGF or VPF, belongs to the PDGF/VEGF growth factor family. It is a growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. VEGFA induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. Defects in VEGFA are associated with microvascular complications of diabetes type 1 (MVCD1). VEGFA has 17 isoforms with MW from 16 to 45 kDa. Some isoforms have homodimer forms (e.g.; VEGFA189 38kDa or VEFGA110 34kDa). VEGF-A exists in at least seven homodimeric isoforms. The monomers consist of 121, 145, 148, 165, 183, 189, or 206 amino acids (PMID:15602010). This antibody can recognize all VEGFA isoforms.

Notable Publications

Author	Pubmed ID	Journal	Application
Mosheng Tang	41323282	iScience	WB

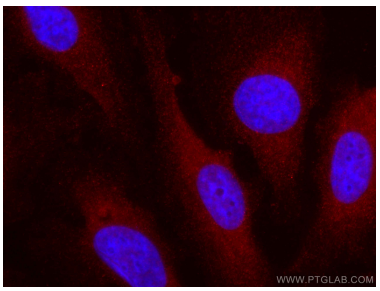
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

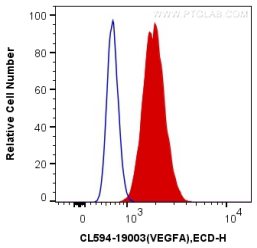
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite®594 VEGF antibody (CL594-19003) at dilution of 1:100.



1X10^6 NIH/3T3 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human VEGF (CL594-19003) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.