CoraLite® Plus 488-conjugated VEGFA Monoclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:CL488-66828   Featured Product

Basic Information

Catalog Number:
CL488-66828

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG2b

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

Observed MW:
43 kDa

Purification Method:
Protein A purification

CloneNo.:
2E2H9

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Human

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.

Storage

Storage:
Store at -20℃. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
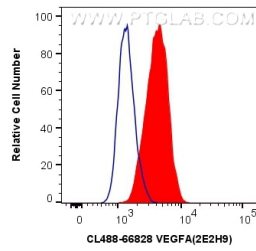Aliquoting is unnecessary for -20°C storage

Selected Validation Data

1X10^6 MCF-7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human VEGFA (CL488-66828, Clone:2E2H9) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).