

For Research Use Only

Mouse VEGFA Recombinant antibody, PBS Only

Catalog Number:82864-16-PBS



Basic Information

Catalog Number:

82864-16-PBS

Size:

100ug, Concentration: 1 mg/ml by
Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001287056

GeneID (NCBI):

22339

Full Name:

vascular endothelial growth factor A

Observed MW:

38 kDa

Purification Method:

Protein A purification

CloneNo.:

1G5

Applications

Tested Applications:

WB, Indirect ELISA

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 38 kDa or VEGFA110 34 kDa). 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).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

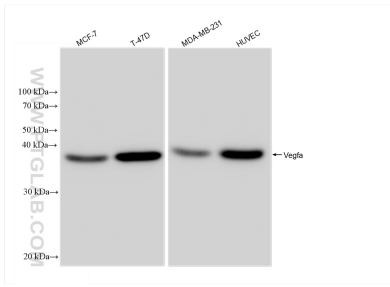
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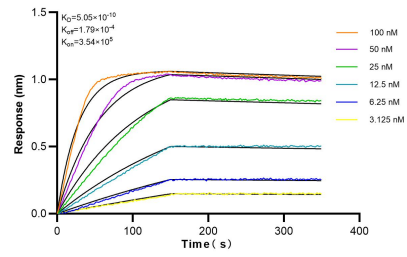
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W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82864-16-RR (Vegfa antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82864-16-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82864-16-RR against Mouse VEGFA were performed. The affinity constant is 0.505 nM.