

For Research Use Only

VEGFA Recombinant antibody

Catalog Number: 82864-16-RR



Basic Information

Catalog Number: 82864-16-RR	GenBank Accession Number: NM_001287056	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 22339	CloneNo.: 1G5
Source: Rabbit	Full Name: vascular endothelial growth factor A	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Observed MW: 38 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : MCF-7 cells, T-47D cells, MDA-MB-231 cells, HUVEC cells
Species Specificity: Human, mouse	

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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

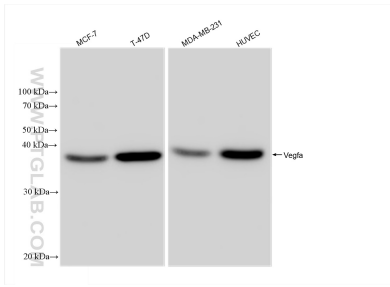
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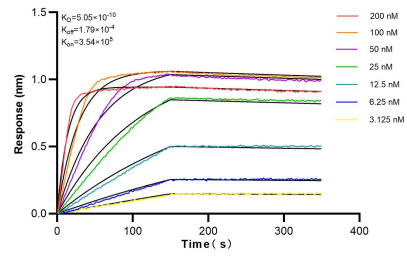
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Selected Validation Data



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.



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