

For Research Use Only

VEGFA Recombinant antibody

Catalog Number: 81323-2-RR **2 Publications**



Basic Information

Catalog Number: 81323-2-RR	GenBank Accession Number: BC065522	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 7422	CloneNo.: 7H10
Source: Rabbit	UNIPROT ID: P15692	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: vascular endothelial growth factor A	
Immunogen Catalog Number: AG13500	Calculated MW: 412 aa, 46 kDa Observed MW: 40 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : MCF-7 cells, T-47D cells, A431 cells, MDA-MB-231 cells, HUVEC cells, RAW 264.7 cells IF/ICC : HeLa cells,
Cited Applications: WB	
Species Specificity: human, mouse	
Cited Species: 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiangrong Cui	40042746	Apoptosis	WB
Shan-Mei Du	39820521	Oncol Rep	WB

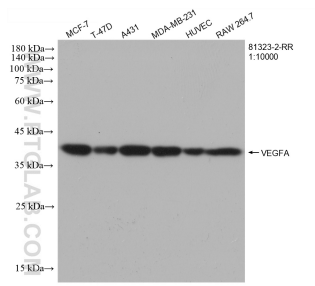
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

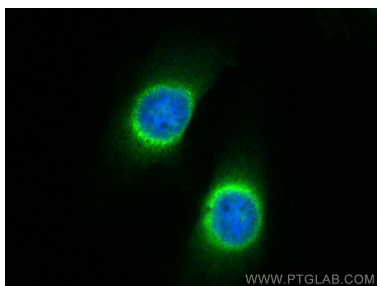
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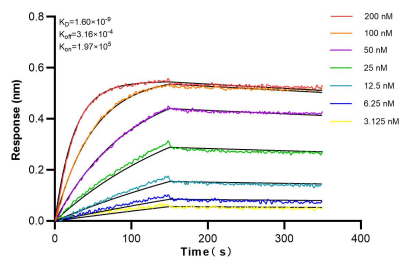
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81323-2-RR (VEGFA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using VEGFA antibody (81323-2-RR, Clone: 7H10) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Biolayer interferometry (BLI) kinetic assays of 81323-2-RR against Human VEGFA were performed. The affinity constant is 1.60 nM.