

For Research Use Only

VEGFA Recombinant antibody

Catalog Number: 81323-2-RR



Basic Information

| | | |
|--|---|--|
| Catalog Number: 81323-2-RR | GenBank Accession Number: BC065522 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | 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: |
| Species Specificity: human, mouse | WB : MCF-7 cells, T-47D cells, A431 cells, MDA-MB-231 cells, HUVEC cells, RAW 264.7 cells |
| | IF/ICC : HeLa 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 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

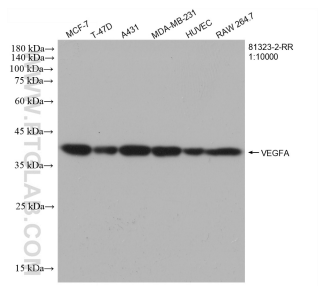
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

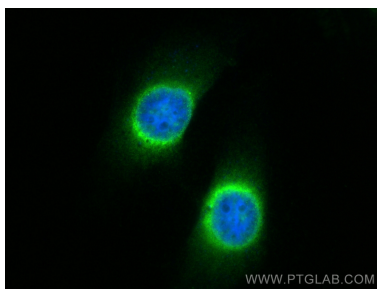
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

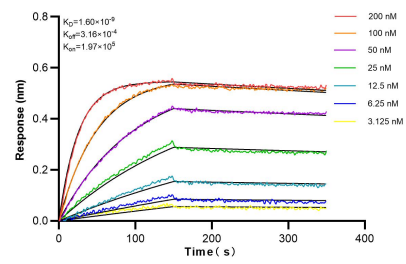
Selected Validation Data



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.