

For Research Use Only

# VEGFR-1/FLT-1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 85844-2-PBS



## Basic Information

<b>Catalog Number:</b> 85844-2-PBS	<b>GenBank Accession Number:</b> NM_002019	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2321	<b>CloneNo.:</b> 253459E3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P17948-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	
<b>Immunogen Catalog Number:</b> EG7078	<b>Calculated MW:</b> 151kd	
	<b>Observed MW:</b> 55-60 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## Background Information

Vascular endothelial growth factor receptor-1 (VEGFR-1, FLT-1) is a receptor tyrosine kinase belonging to the VEGFR family. VEGF is a key regulator of physiological angiogenesis and has also been implicated in pathological angiogenesis associated with tumors, intraocular neovascular disorders, and other conditions. The biological effects of VEGF are mediated by VEGFR-1 and VEGFR-2. Both the two receptors have seven immunoglobulin-like repeats in the extracellular domain, a single transmembrane region and a tyrosine kinase domain. VEGFR-1 binds VEGFA, PlGF, and VEGFB, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. Two isoforms of VEGFR-1 exist, a full-length transmembrane form and a short soluble form (sVEGFR-1) consisting of only the extracellular ligand-binding domain. (PMID: 12778165; 17109193; 8806634)

## Storage

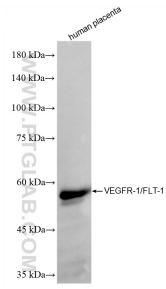
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

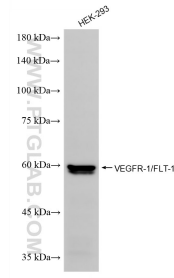
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
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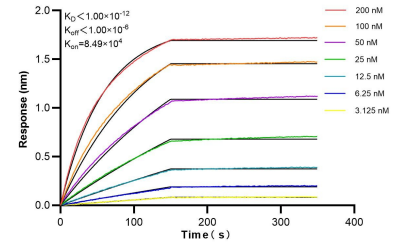
## Selected Validation Data



human placenta tissue were subjected to SDS PAGE followed by western blot with 85844-2-RR (VEGFR-1/FLT-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85844-2-PBS in a different storage buffer formulation.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 85844-2-RR (VEGFR-1/FLT-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85844-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 85844-2-RR against Human VEGFR-1/FLT-1 were performed. The affinity constant is below 1 pM.