

For Research Use Only

# Rat VEGFR1/Flt-1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 85761-4-PBS



## Basic Information

Catalog Number:

85761-4-PBS

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1167

GenBank Accession Number:

GeneID (NCBI):

54251

UNIPROT ID:

P53767

Full Name:

fms-related tyrosine kinase 1

Observed MW:

150-210 kDa

Purification Method:

Protein A purification

CloneNo.:

242311A4

## Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

mouse, rat

## 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:

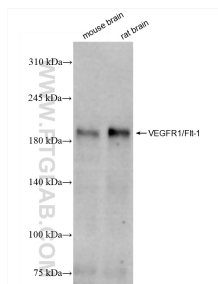
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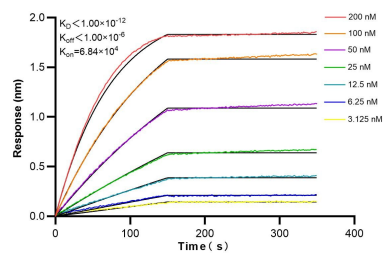
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85761-4-RR (VEGFR1/Flt-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85761-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 85761-4-RR against Rat VEGFR1/Flt-1 were performed. The affinity constant is below 1 pM.