

# VEGFR1/Flt-1 Recombinant monoclonal antibody

Catalog Number: 85761-4-RR

## Basic Information

Catalog Number:

85761-4-RR

Concentration:

1000 µg/ml

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

Recommended Dilutions:

WB: 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

mouse, rat

Positive Controls:

WB : mouse brain tissue, rat brain tissue

## 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 -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

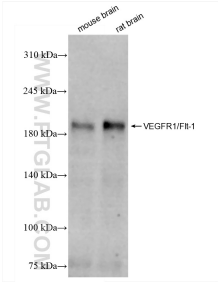
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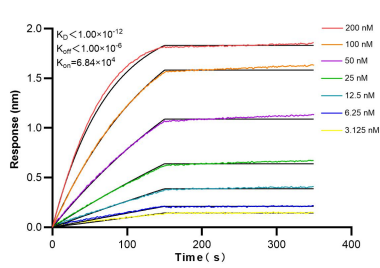
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# Selected Validation Data



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.



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