

For Research Use Only

# VEGFR2/KDR Recombinant antibody

Catalog Number: 83366-1-RR



## Basic Information

<b>Catalog Number:</b> 83366-1-RR	<b>GenBank Accession Number:</b> NM_010612.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 16542	<b>CloneNo.:</b> 240214D7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35918-1	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> kinase insert domain protein receptor	
	<b>Calculated MW:</b> 150KD	
	<b>Observed MW:</b> 150-190 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse lung tissue,
<b>Species Specificity:</b> mouse	

## Background Information

VEGFR2, also named CD309, KDR, and FLK1, is a receptor for VEGF or VEGFC. VEGFR2 which belongs to the protein kinase superfamily, has a tyrosine-protein kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. In the case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. VEGFR2 functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis, and sprouting.

## Storage

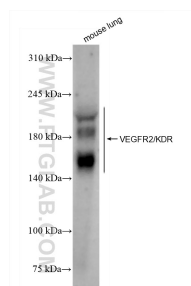
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

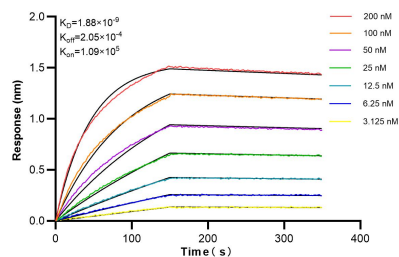
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## Selected Validation Data



mouse lung tissue were subjected to SDS PAGE followed by western blot with 83366-1-RR (VEGFR2/KDR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83366-1-RR against Mouse VEGFR2/KDR were performed. The affinity constant is 1.88 nM.