

For Research Use Only

# VEGFR2/KDR Recombinant antibody

Catalog Number: 83049-4-RR

1 Publications



## Basic Information

<b>Catalog Number:</b> 83049-4-RR	<b>GenBank Accession Number:</b> NM_002253	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3791	<b>CloneNo.:</b> 230238D7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35968-1	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> kinase insert domain receptor (a type III receptor tyrosine kinase)	
	<b>Calculated MW:</b> 152kd	
	<b>Observed MW:</b> 150 kDa, 230 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, FC, ELISA	<b>Positive Controls:</b> WB : human placenta tissue, IHC : human placenta tissue, human rectal cancer tissue, human tonsillitis tissue
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

KDR, also named as VEGFR-2, FLK1 and CD309, is a receptor for VEGF or VEGFC. KDR 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 case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. KDR functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. Mutations of this gene are implicated in infantile capillary hemangiomas.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hanting Wang	38862832	Cell Biol Toxicol	WB

## Storage

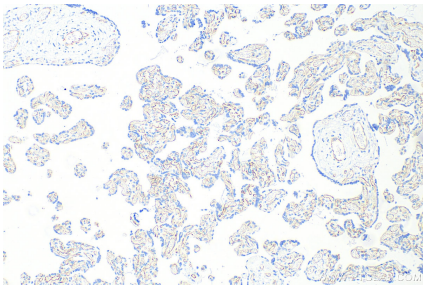
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

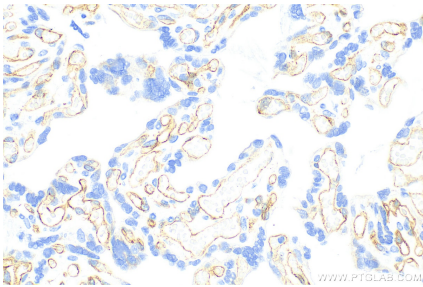
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

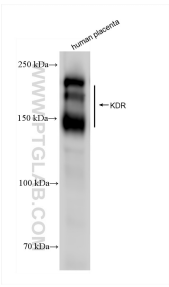
Selected Validation Data



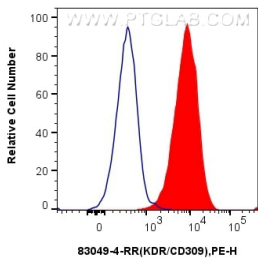
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83049-4-RR (KDR antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



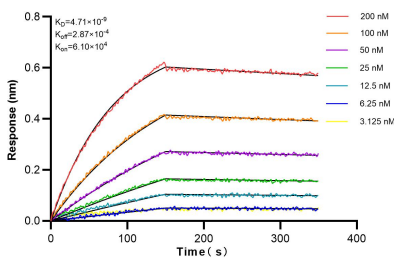
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83049-4-RR (KDR antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



human placenta tissue was subjected to SDS PAGE followed by western blot with 83049-4-RR (KDR antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HUVEC cells were surface stained with 0.25 ug VEGF Receptor 2 Recombinant antibody (83049-4-RR, Clone:230238D7) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were not fixed.



Biolayer interferometry (BLI) kinetic assays of 83049-4-RR against Human KDR were performed. The affinity constant is 4.71 nM.