

For Research Use Only

# VEGFR2/KDR Polyclonal antibody

Catalog Number: 26415-1-AP

Featured Product

121 Publications



## Basic Information

### Catalog Number:

26415-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG24589

### GenBank Accession Number:

BC131822

### GeneID (NCBI):

3791

### UNIPROT ID:

P35968

### Full Name:

kinase insert domain receptor (a type III receptor tyrosine kinase)

### Calculated MW:

1356 aa, 152 kDa

### Observed MW:

150 kDa, 230 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, sheep

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : human placenta tissue, mouse heart tissue, mouse lung tissue, mouse placenta tissue, rat lung tissue

**IP** : human placenta tissue, rat skeletal muscle tissue

**IHC** : human placenta tissue,

## 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
Xiao-Qin Zhu	33456987	J Gastrointest Oncol	IHC
Qiang Ma	31562866	Eur J Pharmacol	WB
Yongyun Li	34536440	J Mol Cell Cardiol	IF

## 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

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

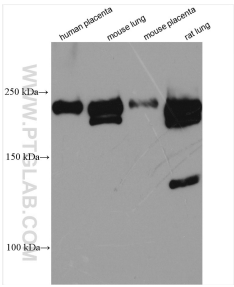
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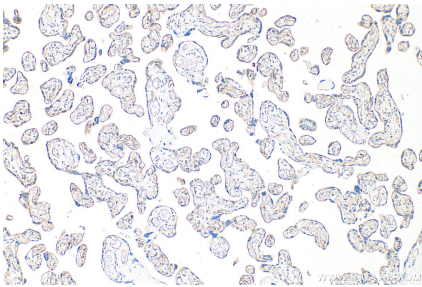
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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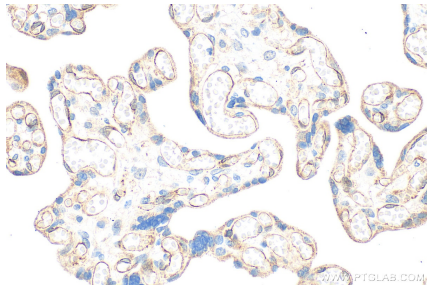
Selected Validation Data



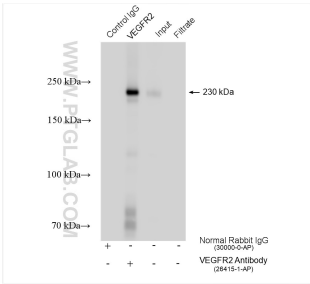
Various lysates were subjected to SDS PAGE followed by western blot with 26415-1-AP (VEGFR2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 26415-1-AP (VEGFR2/KDR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 26415-1-AP (VEGFR2/KDR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-VEGFR2/KDR (IP:26415-1-AP, 4ug; Detection:26415-1-AP 1:3000) with human placenta tissue lysate 600 ug.