

For Research Use Only

VEGF Receptor 2 Recombinant antibody



Catalog Number: 83049-4-RR

Basic Information

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

Applications

Tested Applications:

WB, FC, IHC, ELISA

Species Specificity:

Human

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,

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.

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

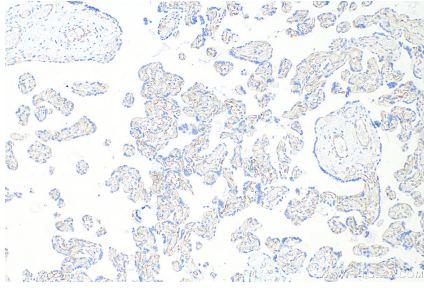
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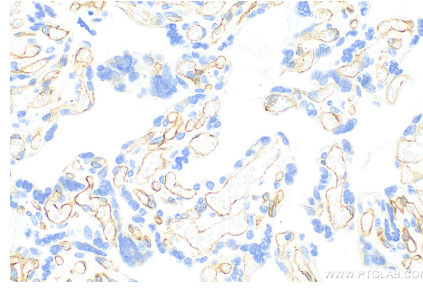
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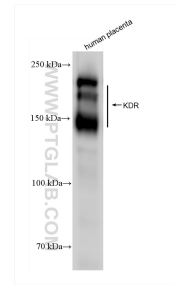
Selected Validation Data



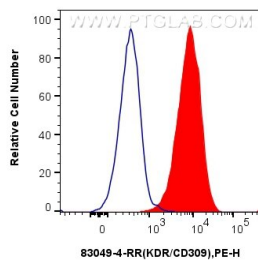
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83049-4-RR (KDR antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



1x10⁶ 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.