

For Research Use Only

VEGFR2/CD309 Recombinant antibody

Catalog Number: 83049-4-RR

1 Publications



Basic Information

Catalog Number: 83049-4-RR	GenBank Accession Number: NM_002253	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/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)	FC: 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Immunogen Catalog Number: EG0218	Calculated MW: 152 kDa	
	Observed MW: 150 kDa, 230 kDa	

Applications

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

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

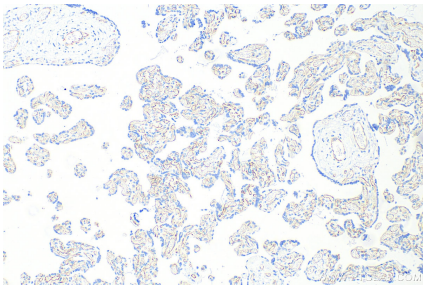
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

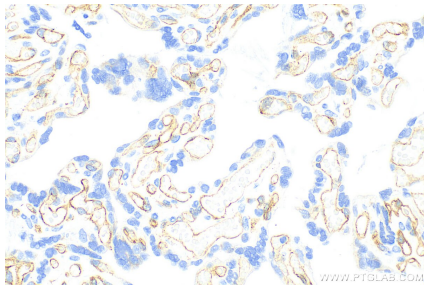
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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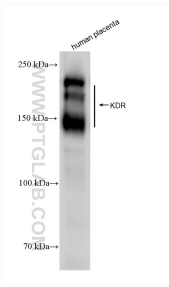
Selected Validation Data



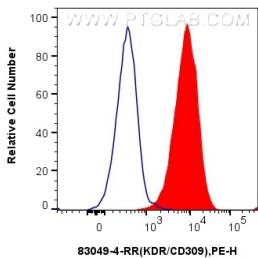
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83049-4-RR (VEGFR2/CD309 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



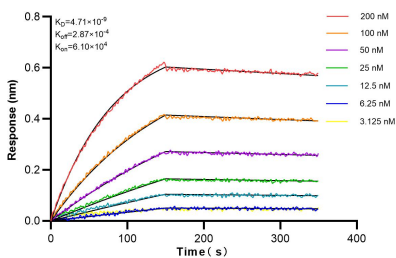
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83049-4-RR (VEGFR2/CD309 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



human placenta tissue was subjected to SDS PAGE followed by western blot with 83049-4-RR (VEGFR2/CD309 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10⁶ HUVEC cells were surface stained with 0.25 ug VEGFR2/CD309 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.