

For Research Use Only

VEGFR2/KDR Recombinant antibody, PBS Only

Catalog Number: 83049-4-PBS



Basic Information

Catalog Number:

83049-4-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_002253

GeneID (NCBI):

3791

UNIPROT ID:

P35968-1

Full Name:

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

Calculated MW:

152kd

Observed MW:

150 kDa, 230 kDa

Purification Method:

Protein A purification

CloneNo.:

230238D7

Applications

Tested Applications:

WB, IHC, FC, Indirect ELISA

Species Specificity:

human

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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

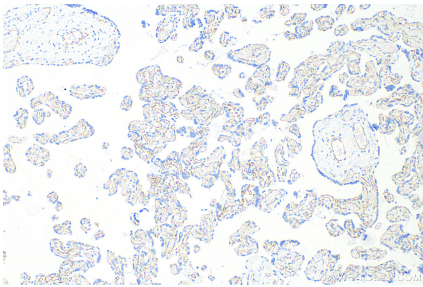
T: 4006900926

E: Proteintech-CN@ptglab.com

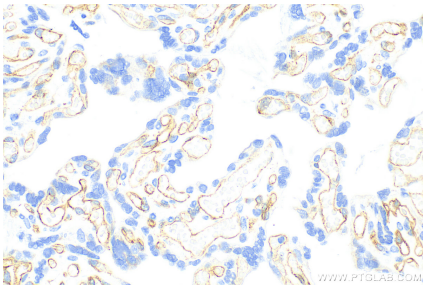
W: ptgcn.com

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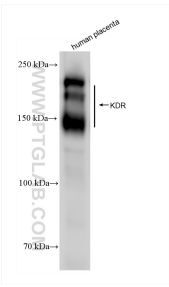
Selected Validation Data



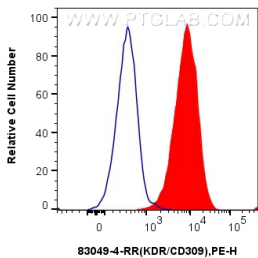
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83049-4-RR (KDR antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83049-4-PBS in a different storage buffer formulation.



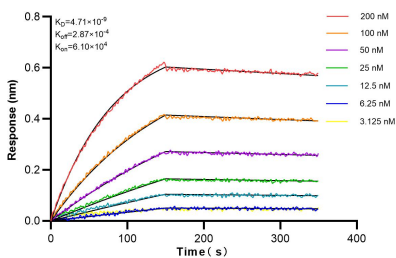
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83049-4-RR (KDR antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83049-4-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 83049-4-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 83049-4-PBS in a different storage buffer formulation.



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