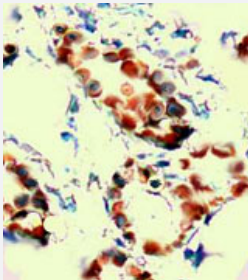


KDR polyclonal antibody

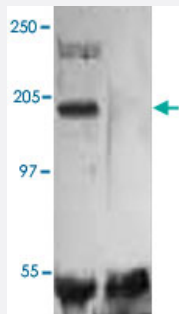
Catalog # PAB12647 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human breast cancer tissue was stained with KDR polyclonal antibody (Cat # PAB12647) at 1 : 100 for 10 min at RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.



Immunoprecipitation

The whole cell lysate derived from human umbilical vein endothelial cell (HUVEC) was stimulated by VEGF-A for 20 min, then immunoprecipitated by KDR polyclonal antibody (Cat # PAB12647) followed by immune-probing with KDR polyclonal antibody (Cat # PAB12647) at 1 : 500. The immunoreactive bands are observed around ~ 200 KDa (non-phospho form) and ~ 240 KDa (Phospho-form, lane 1). The lane 2 is a negative control.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of KDR.
Immunogen	A synthetic peptide corresponding to extracellular domain of human KDR.
Host	Rabbit
Theoretical MW (kDa)	200, 240
Reactivity	Human, Mouse
Specificity	This antibody recognizes ~200 and ~240 KDa of human KDR.
Form	Liquid

Quality Control Testing

Antibody Reactive Against Synthetic Peptide.

Recommend Usage

Western Blot (0.1-1 ug/mL)
ELISA (0.01-0.1 ug/mL)
Immunoprecipitation (2-5 ug/mL)
Immunohistochemistry (2-5 ug/mL)
The optimal working dilution should be determined by the end user.

Storage Buffer

In TBS, pH 7.2 (BSA, 10% Proclin300)

Storage Instruction

Store at 4°C. For long term storage store at -20°C or lower.
Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunoprecipitation

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — KDR

Entrez GeneID[3791](#)**Gene Name**

KDR

Gene Alias

CD309, FLK1, VEGFR, VEGFR2

Gene Description

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

Omim ID[191306 602089](#)**Gene Ontology**[Hyperlink](#)

Gene Summary

Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq]

Other Designations

soluble VEGFR2|vascular endothelial growth factor receptor 2

Publication Reference

- [Soluble vascular endothelial growth factor receptor 3 is essential for corneal alymphaticity.](#)

Singh N, Tiem M, Watkins R, Cho YK, Wang Y, Olsen T, Uehara H, Mamalis C, Luo L, Oakey Z, Ambati BK.
Blood 2013 May; 121(20):4242.

- [An analysis of protein-protein interactions in cross-talk pathways reveals CRKL as a novel prognostic marker in hepatocellular carcinoma.](#)

Liu CH, Chen TC, Chau GY, Jan YH, Chen CH, Hsu CN, Lin KT, Juang YL, Lu PJ, Cheng HC, Chen MH, Chang CF, Ting YS, Kao CY, Hsiao M, Huang CY.
Molecular & Cellular Proteomics 2013 May; 12(5):1335.

Application: Profiling, Human, Huh7 cells, Mahlavu cells

- [VEGF receptor-2 Y951 signaling and a role for the adapter molecule TSA1 in tumor angiogenesis.](#)

Matsumoto T, Bohman S, Dixelius J, Berge T, Dimberg A, Magnusson P, Wang L, Wikner C, Qi JH, Wernstedt C, Wu J, Bruheim S, Mugishima H, Mukhopadhyay D, Spurkland A, Claesson-Welsh L.
The EMBO Journal 2005 Jul; 24(13):2342.

Application: IF, WB-Tr, Human, Pig, HUVECs, PAE cells

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Focal adhesion](#)
- [VEGF signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Angina Pectoris](#)
- [Anoxia](#)
- [Asthma](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebral Hemorrhage](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Femur Head Necrosis](#)
- [Foot Dermatoses](#)
- [Genetic Predisposition to Disease](#)
- [Gilbert Disease](#)

- [Glioma](#)
- [Hot Flashes](#)
- [Hyperbilirubinemia](#)
- [Hypercholesterolemia](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphedema](#)
- [Macular Degeneration](#)
- [Metabolic Syndrome X](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Myocardial Infarction](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Osteonecrosis](#)
- [Osteoporosis](#)
- [Psychomotor Performance](#)
- [Recurrence](#)
- [Sarcoidosis](#)

- [Scleroderma](#)
- [Stroke](#)
- [Uterine Cervical Neoplasms](#)