

Datasheet for ABIN3043274

anti-VEGFR2/CD309 antibody (N-Term)[Go to Product page](#)**1** Image**6** Publications

Overview

Quantity:	100 µg
Target:	VEGFR2/CD309 (VEGFR2)
Binding Specificity:	AA 29-60, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFR2/CD309 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-VEGF Receptor 2/KDR Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human KDR, different from the related mouse and rat sequences by three amino acids.
Sequence:	LDLPRLSIQK DILTIKANTT LQITCRGQRD LD
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-VEGF Receptor 2/KDR Antibody Picoband® (ABIN3043274). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: VEGFR2/CD309 (VEGFR2)

Alternative Name: KDR ([VEGFR2 Products](#))

Background: Synonyms: Vascular endothelial growth factor receptor 2, VEGFR-2, 2.7.10.1, Fetal liver kinase 1, FLK-1, Kinase insert domain receptor, KDR, Protein-tyrosine kinase receptor flk-1, CD309, KDR, FLK1, VEGFR2, Tissue Specificity: Detected in cornea (at protein level). Widely expressed. . Background: KDR (Kinase Insert Domain Receptor), also known as FLK1, VEGFR or VEGFR2, is a VEGF receptor. KDR is the human gene encoding it. Sait et al. (1995) likewise corrected the assignment to chromosome 4q11-q12 to the same region occupied also by PDGFRA and KIT, thus indicating the location of a cluster of receptor tyrosine kinase genes. Vascular endothelial growth factor (VEGF) is the only mitogen that specifically acts on endothelial cells. Its expression is upregulated by hypoxia, and its cell-surface receptor, known as fetal liver kinase-1 (Flk1) in mouse, is exclusively expressed in endothelial cells (Plate et al., 1993). Flk1 is the mouse homolog of KDR (Matthews et al., 1991). Sequence Similarities: Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.

Molecular Weight: 152 kDa

Gene ID: 3791

UniProt: [P35968](#)

Pathways: [RTK Signaling](#), [Glycosaminoglycan Metabolic Process](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Growth Factor Binding](#), [Regulation of long-term Neuronal Synaptic Plasticity](#), [VEGF Signaling](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human
1. Matthews, W., Jordan, C. T., Gavin, M., Jenkins, N. A., Copeland, N. G., Lemischka, I. R. A receptor tyrosine kinase cDNA isolated from a population of enriched primitive hematopoietic cells and exhibiting close genetic linkage to c-kit. Proc. Nat. Acad. Sci. 88: 9026-9030, 1991. 2. Plate, K. H., Breier, G., Millauer, B., Ullrich, A., Risau, W. Up-regulation of vascular endothelial growth factor and its cognate receptors in a rat glioma model of tumor angiogenesis. Cancer

Application Details

Res. 53: 5822-5827, 1993. 3. Sait, S. N. J., Dougher-Vermazen, M., Shows, T. B., Terman, B. I. The kinase insert domain receptor gene (KDR) has been relocated to chromosome 4q11-q12. Cytogenet. Cell Genet. 70: 145-146, 1995.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: Huang, Li, Pan, Cheng, Ren, Jia, Ma, Xu: "A novel multi-target RNAi adenovirus inhibits hepatoma cell proliferation, migration, and induction of angiogenesis." in: **Oncotarget**, Vol. 7, Issue 36, pp. 57705-57713, (2018) ([PubMed](#)).

Liu, Yang, Zhang, Shui, Song, Yao, Dai, Sun: "Fructopyrano-(1?4)-glucopyranose inhibits the proliferation of liver cancer cells and angiogenesis in a VEGF/VEGFR dependent manner." in: **International journal of clinical and experimental medicine**, Vol. 7, Issue 11, pp. 3859-69, (2014) ([PubMed](#)).

Zhu, Tuerxun, Hui, Abliz: "Effects of propranolol and isoproterenol on infantile hemangioma

endothelial cells in vitro." in: **Experimental and therapeutic medicine**, Vol. 8, Issue 2, pp. 647-651, (2014) ([PubMed](#)).

Wang, Liu, Wang, Wang: "Correlation of the expression of vascular endothelial growth factor and its receptors with microvessel density in ovarian cancer." in: **Oncology letters**, Vol. 6, Issue 1, pp. 175-180, (2013) ([PubMed](#)).

Wu, You, Ma, Li, Yuan, Li, Ye, Liu, Yao, Chen, Lai, Yang: "Role of transient receptor potential ion channels and evoked levels of neuropeptides in a formaldehyde-induced model of asthma in BALB/c mice." in: **PLoS ONE**, Vol. 8, Issue 5, pp. e62827, (2013) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1.