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## Datasheet for ABIN3044301 anti-VEGFR2/CD309 antibody (Middle Region)

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#### Overview

Quantity:	100 µg
Target:	VEGFR2/CD309 (VEGFR2)
Binding Specificity:	AA 454-469, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFR2/CD309 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Vascular endothelial growth factor receptor 2(KDR) detection. Tested with WB, IHC-P, IHC-F, ICC in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human VEGF Receptor 2(454-469aa HHIHWYWQLEEECANE).

Sequence:	HHIHWYWQLE EECANE
lsotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Vascular endothelial growth factor receptor 2(KDR) detection. Tested with WB, IHC-P, IHC-F, ICC in Human.
	Gene Name: kinase insert domain receptor(a type III receptor tyrosine kinase)

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## Product Details

	Protein Name: Vascular endothelial growth factor receptor 2
Purification:	Immunogen affinity purified.
Target Details	
Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	KDR (VEGFR2 Products)
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).
	Synonyms: CD309 antibody CD309 antigen antibody Fetal liver kinase 1 antibody FLK-1
	antibody FLK1 antibody Kdr antibody Kinase insert domain receptor(a type III receptor tyrosine
	kinase) antibody Kinase insert domain receptor antibody KRD1 antibody Ly73 antibody Protein
	tyrosine kinase receptor FLK1 antibody Protein-tyrosine kinase receptor flk-1 antibody Tyrosine
	kinase growth factor receptor antibody Vascular endothelial growth factor receptor 2
	antibody VEGFR 2 antibody VEGFR antibody VEGFR-2 antibody VEGFR2
	antibody VGFR2_HUMAN antibody
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:	WB: Concentration: 0.1-0.5 $\mu\text{g/mL},$ Tested Species: Human, The detection limit for KDR is
	approximately 5 ng/lane under reducing conditions.
	IHC-P: Concentration: 0.5-1 $\mu$ g/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of
	formalin/paraffin sections.

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	IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human
	ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be
	fit for the product based on sequence similarities. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P), IHC(F) and ICC.
Restrictions:	For Research Use only

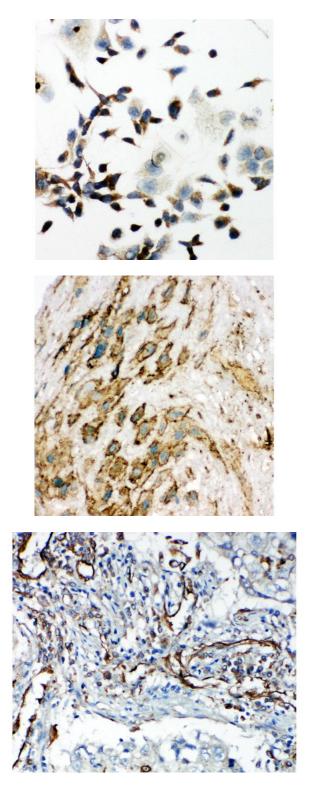
## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu$ g/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

### Publications

Product cited in: Luchinat, Barbieri, Rubino, Kozyreva, Cantini, Banci: "In-cell NMR reveals potential precursor of toxic species from SOD1 fALS mutants." in: **Nature communications**, Vol. 5, pp. 5502, (2014) ( PubMed).

There are more publications referencing this product on: Product page



#### Immunohistochemistry

Image 1. Anti-VEGF Receptor 2 antibody, ICC ICC: HELA Cell

#### Immunohistochemistry

**Image 2.** Anti-VEGF Receptor 2 antibody, IHC(F) IHC(F): Human Placenta Tissue

#### Immunohistochemistry

**Image 3.** Anti-VEGF Receptor 2 antibody, IHC(P) IHC(P): Human Lung Cancer Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3044301.

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