-online.com antibodies

Datasheet for ABIN6256627 anti-VEGFR2/CD309 antibody (pTyr1214)





Overview

Quantity:	100 μL
Target:	VEGFR2/CD309 (VEGFR2)
Binding Specificity:	pTyr1214
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFR2/CD309 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human VEGFR2 around the phosphorylation site of Tyr1214.
lsotype:	lgG
Specificity:	Phospho-VEGFR2 (Tyr1214) Antibody detects endogenous levels of VEGFR2 only when phosphorylated at Tyrosine 1214.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Sheep,Rabbit,Dog,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6256627 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	KDR (VEGFR2 Products)
Background:	Description: Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFC and
	VEGFD. Plays an essential role in the regulation of angiogenesis, vascular development,
	vascular permeability, and embryonic hematopoiesis. Promotes proliferation, survival, migration
	and differentiation of endothelial cells. Promotes reorganization of the actin cytoskeleton.
	Isoforms lacking a transmembrane domain, such as isoform 2 and isoform 3, may function as
	decoy receptors for VEGFA, VEGFC and/or VEGFD. Isoform 2 plays an important role as
	negative regulator of VEGFA- and VEGFC-mediated lymphangiogenesis by limiting the amount
	of free VEGFA and/or VEGFC and preventing their binding to FLT4. Modulates FLT1 and FLT4
	signaling by forming heterodimers. Binding of vascular growth factors to isoform 1 leads to the
	activation of several signaling cascades. Activation of PLCG1 leads to the production of the
	cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate and the activation of
	protein kinase C. Mediates activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase
	signaling pathway, as well as of the AKT1 signaling pathway. Mediates phosphorylation of
	PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, reorganization of the actin
	cytoskeleton and activation of PTK2/FAK1. Required for VEGFA-mediated induction of NOS2
	and NOS3, leading to the production of the signaling molecule nitric oxide (NO) by endothelial
	cells. Phosphorylates PLCG1. Promotes phosphorylation of FYN, NCK1, NOS3, PIK3R1,
	PTK2/FAK1 and SRC.
	Gene: KDR
Molecular Weight:	152kDa
Gene ID:	3791
UniProt:	P35968
Pathways:	RTK Signaling, Glycosaminoglycan Metabolic Process, Signaling Events mediated by VEGFR1
Palliways.	and VEGFR2, Growth Factor Binding, Regulation of long-term Neuronal Synaptic Plasticity,
	VEGF Signaling

Application Details

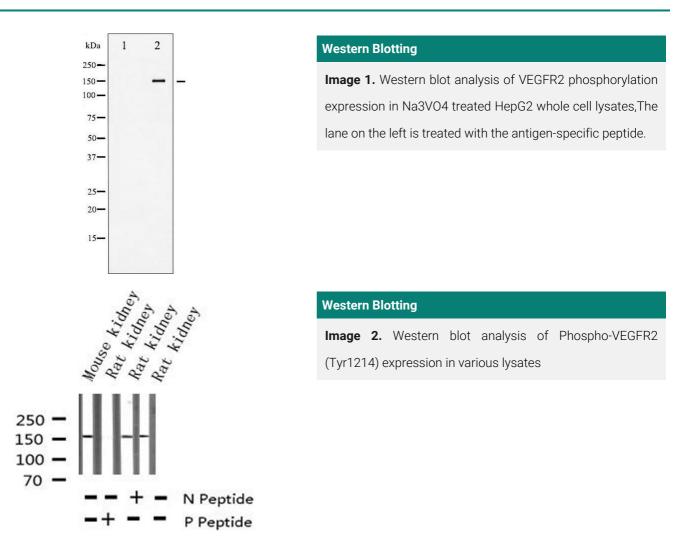
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6256627 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

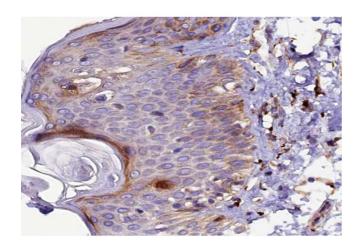
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN6256627 | 09/10/2023 | Copyright antibodies-online. All rights reserved.



Immunohistochemistry

Image 3. ABIN6267491 at 1/100 staining human Skin cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 4 images are available for ABIN6256627.