# VEGFR2 Antibody

Catalog No: #21079

Package Size: #21079-1 50ul #21079-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

# Description

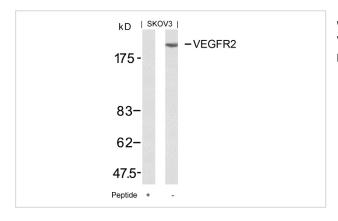
Product Name	VEGFR2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were
	purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total VEGFR2 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.949~953 (K-D-Y-V-G) derived from Human VEGFR2.
Target Name	VEGFR2
Other Names	FLK1; KDR; VGFR2; kinase insert domain receptor
Accession No.	Swiss-Prot: P35968NCBI Protein: NP_002244.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%
	sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

# **Application Details**

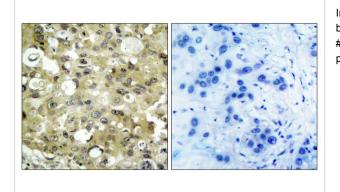
Predicted MW: 230kd
Western blotting: 1:500~1:1000
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

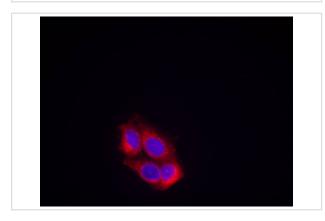
# Images



Western blot analysis of extracts from SKOV3 cells using VEGFR2(Ab-951) Antibody #21079 and the same antibody preincubated with blocking peptide.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using VEGFR2(Ab-951) Antibody #21079(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed MCF cells using VEGFR2(Ab-951) Antibody #21079.

## Background

Receptor for VEGF or VEGFC. 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

Zeng H, et al. (2001) J Biol Chem. 276(35): 32714-32719.

Dougher M, et al. (1999) Oncogene. 18(8): 1619-1627.

## **Published Papers**

Qi Zhao, Takako Yokozawa, Koichi Tsuneyama el at., Chotosan (Diaoteng San)-induced improvement of cognitive deficits in senescence-accelerated mouse (SAMP8) involves the amelioration of angiogenic/neurotrophic factors and neuroplasticity systems in the brain., Chinese Medicine, Volume 6, Number 1, 33(2011)

#### PMID:21943225

Qi Zhao, TakakoYokozawab, NorikoYamabeb el at., Kangen-karyu improves memory deficit caused by aging through normalization of neuro-plasticity-related signaling system and VEGF system in the brain., Journal of Ethnopharmacology, 131(2):377-385(2010)

### PMID:20637274

Qi Zhao, Yimin Niu, Kinzo Matsumoto1 el at., Chotosan ameliorates cognitive and emotional deficits in an animal model of type 2 diabetes: possible involvement of cholinergic and VEGF/PDGF mechanisms in the brain., BMC Complementary and Alternative Medicine., 0.630555556(2012)

### PMID:23082896

el at., Kangen-karyu improves memory deficit caused by aging through normalization of neuro-plasticity-related signaling system and VEGF system in the brain.In J Ethnopharmacol on 2010 Sep 15 by Qi Zhao, Takako Yokozawa,et al..PMID:20637274, , (2010)

#### PMID:20637274

el at., Chotosan (Diaoteng San)-induced improvement of cognitive deficits in senescence-accelerated mouse (SAMP8) involves the amelioration of angiogenic/neurotrophic

factors and neuroplasticity systems in the brain. In Chin Med on 2011 Sep 23 by Qi Zhao, Takako Yokozawa, et al..PMID: 21943225, , (2011)

PMID:21943225

el at., Chotosan Ameliorates Cognitive and Emotional Deficits in an Animal Model of Type 2 Diabetes: Possible Involvement of Cholinergic and VEGF/PDGF Mechanisms in the Brain. In BMC Complement Altern Med 2012 Oct 20 by Qi Zhao, Yimin Niu, et al..PMID:23082896, , (2012)

#### PMID:23082896

el at., Artesunate Inhibits Proliferation and Invasion of Mouse Hemangioendothelioma Cells in vitro and of Tumor Growth in vivo. In Oncol Lett on 2017 Nov by Ning Wang, Hongxia Chen, et al.. PMID: 29113263, (2017)

#### PMID:29113263

el at., Maternal protein restriction alters VEGF signaling and decreases pulmonary alveolar in fetal rats.In Int J Clin Exp Pathol on 2014 May 15 by Xiaomei Liu, Yan Lin et al..PMID: 25031729, , (2014)

#### PMID:25031729

el at., CD146 acts as a novel receptor for netrin-1 in promoting angiogenesis and vascular development. In Cell Res on 2015 Mar by Wei Chen, Yan Liu et al.. PMID:25656845, (2015)

#### PMID:25656845

el at., Possible involvement of VEGF signaling system in rescuing effect of endogenous acetylcholine on NMDA-induced long-lasting hippocampal cell damage in organotypic hippocampal slice cultures. In Neurochem Int on 2014 Sep by Chikako Inada, Yimin Niu,et al..PMID:24911952, , (2014)

PMID:24911952

Note: This product is for in vitro research use only and is not intended for use in humans or animals.