

Datasheet for ABIN6142820

anti-VEGFR2/CD309 antibody (AA 1150-1250)[Go to Product page](#)**2** Images**1** Publication

Overview

Quantity:	500 µL
Target:	VEGFR2/CD309 (VEGFR2)
Binding Specificity:	AA 1150-1250
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFR2/CD309 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1150-1250 of human VEGF Receptor 2 (NP_002244.1).
Sequence:	RPTFSELVEH LGNLLQANAQ QDGKDYIVLP ISETLSMEED SGLSLPTSPV SCMEEEVCD PKFHYDNTAG ISQYLQNSKR KSRPVSVKTF EDIPLEEPEV K
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	VEGFR2/CD309 (VEGFR2)
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Target Details

Alternative Name:	KDR (VEGFR2 Products)
Background:	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, CD309, FLK1, VEGFR, VEGFR2, VEGF Receptor 2, KDR, Cancer, Invasion and Metastasis, Signal Transduction, Kinase, Tyrosine kinases, Cell Biology & Developmental Biology, Growth factor, VEGF, VEGF Receptors, Endocrine & Metabolism, Immunology & Inflammation, CD markers, Stem Cells, Endothelial Progenitors, Hematopoietic Progenitors, Cardiovascular, Angiogenesis, Angiogenic growth factors, Hypoxia, KDR
Molecular Weight:	75 kDa/79 kDa/151 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:	WB, 1:500 - 1:2000
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

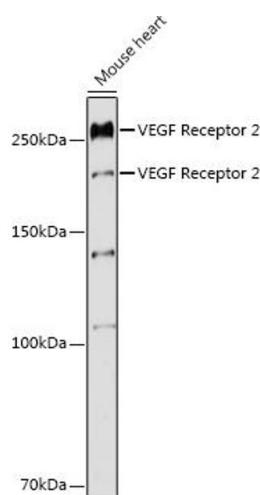
Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

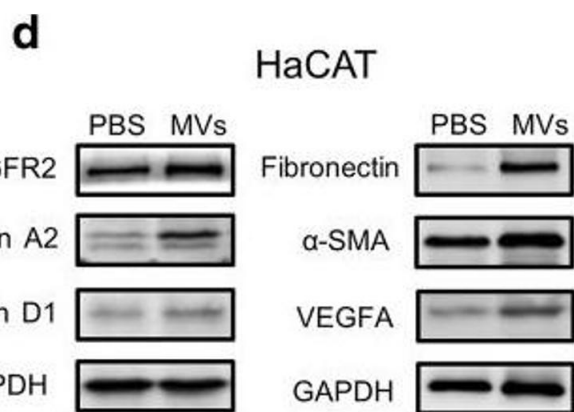
Product cited in:	Yuan, Shan, Tan, Deng, Liu, Wang, Luo, He, Luo, Zhang, Baker, Olson, Qi: "SRC-3 Plays a Critical Role in Human Umbilical Vein Endothelial Cells by Regulating the PI3K/Akt/mTOR Pathway in Preeclampsia." in: Reproductive sciences (Thousand Oaks, Calif.) , Vol. 25, Issue 5, pp. 748-758 , (2018) (PubMed).
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Images



Western Blotting

Image 1. Western blot analysis of extracts of Mouse heart, using VEGF Receptor 2 antibody (ABIN6134816, ABIN6142817, ABIN6142820 and ABIN6221243) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



Western Blotting

Image 2. Effect of ASC-MV treatment on gene expression in all three kinds of cells. qRT-PCR analysis of a cluster of gene expression in cells treated with either PBS or 20 µg/mL ASC-MVs. a Upregulated genes in HUVECs. c Upregulated genes in HaCAT. e Upregulated genes in fibroblasts. Western blot analysis of gene expression in cells given above treatments. b Upregulated genes in HUVECs. d HaCAT. f Fibroblasts. GAPDH served as an internal control. N=3. *p<0.05, **p<0.01, ***p<0.001, ****p<0.0001 - figure provided by CiteAb. Source: PMID30704535