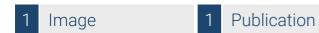


Datasheet for ABIN964773

anti-VEGFA antibody (HRP)





Go to Product page

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Quantity:	100 μg
Target:	VEGFA
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFA antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	VEGF Antibody Peroxidase Conjugated	
Immunogen:	Immunogen: This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human VEGF-165 protein. Immunogen Type: Recombinant Protein	
Isotype:	IgG	
Cross-Reactivity (Details):	This purified antibody has been heated to 56 °C for 30 minutes.	
Characteristics:	Synonyms: rabbit anti-VEGF Peroxidase Conjugated antibody, rabbit anti-VEGF-165 Peroxidase Conjugated antibody, Vascular endothelial growth factor A, VEGF-A, VEGF-165, VEGF isoform L, Vascular permeability factor, VPF	
Purification:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.	

Target Details

Target:	VEGFA	
Alternative Name:	VEGFA (VEGFA Products)	
Background:	Background: VEGF (Vascular Endothelial Growth Factor A) is a homodimeric, disulfide-linked	
	glycoprotein involved in angiogenesis which promotes tumor progression and metastasis. It	
	exhibits potent mitogenic and permeability inducing properties specific for the vascular	
	endothelium. Of the four isoforms of VEGF, the smaller two, VEGF 165 and VEGF 121, are	
	secreted proteins and act as diffusible agents, whereas the larger two (VEGF 189 and VEGF	
	206) remain cell associated. The sequence of this isoform differs from the canonical sequence	
	as follows: 141-141: $K \rightarrow N$ and 142-182: missing. This isoform is often found as a disulfide	
	linked homodimer.	
Gene ID:	7422	
NCBI Accession:	NP_001165097	
UniProt:	P15692	
Pathways:	RTK Signaling, Glycosaminoglycan Metabolic Process, Regulation of Cell Size, Tube Formation	
	Signaling Events mediated by VEGFR1 and VEGFR2, Platelet-derived growth Factor Receptor	
	Signaling, VEGFR1 Specific Signals, VEGF Signaling	
Application Details		
Application Notes:	Immunohistochemistry Dilution: 1:500-1:2,500	
	Application Note: This protein-A purified antibody has been tested for use in western blotting.	
	Reactivity in other assays has not been determined. Specific conditions for reactivity should be	
	optimized by the end user. Expect a band approximately 22 kDa in size corresponding to	
	monomeric human VEGF-165 protein by western blotting in the appropriate cell lysate or	
	extract.	
	Western Blot Dilution: 1:1,000-1:5,000	
	, , ,	
	Other: User Optimized	
Restrictions:		
	Other: User Optimized	
Restrictions: Handling Format:	Other: User Optimized	
Handling	Other: User Optimized For Research Use only	

Handling

Concentration:	1.0 mg/mL	
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2	
	Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free	
	Preservative: 0.01 % (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!	
Preservative:	Gentamicin sulfate	
Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C	
	or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after	
	standing at room temperature. This product is stable for several weeks at 4° C as an undiluted	
	liquid. Dilute only prior to immediate use.	
Expiry Date:	12 months	
Publications		
Product cited in:	Sreevalsan, Safe: "The cannabinoid WIN 55,212-2 decreases specificity protein transcription	
	factors and the oncogenic cap protein eIF4E in colon cancer cells." in: Molecular cancer	
	therapeutics, Vol. 12, Issue 11, pp. 2483-93, (2014) (PubMed).	

Images



Western Blotting

Image 1. Western Blot showing detection of Recombinant Human VEGF-165. 50ng of protein (Lane 1) was run on a 4-20% gel and transferred to 0.45 µm nitrocellulose. After blocking with 1% BSA-TTBS, diluted to 1X) 30 min at 20°C, Anti-VEGF-165 (RABBIT) Antibody Peroxidase Conjugate secondary antibody was used at 1:1000 in Blocking Buffer for Fluorescent Western Blotting and imaged using the Bio-Rad 4000 MP. Arrow indicates correct 19 kDa molecular weight position expected for rH-VEGF-165.