Datasheet for ABIN964773

anti-VEGFA antibody (HRP)

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Overview

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, VEGF165, 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 → *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:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)

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.