Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 209-403-B99

VEGF Antibody Peroxidase Conjugated

Overview

Description:	Anti-VEGF-165 (RABBIT) Antibody Peroxidase Conjugated - 209-403-B99
Item No.:	209-403-B99
Size:	100 µg
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
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
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	VEGFA
Reactivity:	Human
Immunogen Type:	Recombinant Protein

Immunogen:	This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human VEGF-165 protein.
Purity/Specificity:	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. This purified antibody has been heated to 56°C for 30 minutes. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant human VEGF-165 in cell supernatants and certain body fluids. A control of similarly diluted normal rabbit IgG is recommended.
Relevant Links:	• UniProtKB - P15692 • NCBI - NP_001165097.1 • GeneID - 7422

Application Details

Tested Applications:	WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:500-1:2,500
WB:	1:1,000-1:5,000

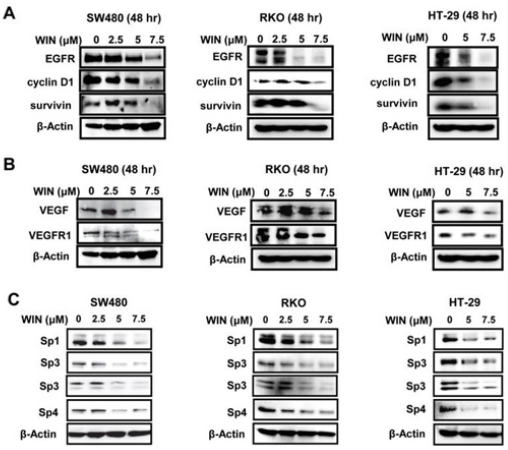
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
WIN downregulates Sp-regulated proliferative, survival (A) and angiogenic (B) gene products and Sp proteins (C) in SW480, RKO and HT-29 cells. Cells were treated with 2.5–7.5 μM of WIN for 48 hr, whole cell lysates were analyzed by western blots, and expression of Sp1, Sp3 and Sp4 protein was quantitated (C) relative to βactin (levels in the DMSO group were set at 1.0). Data in Figures 2A and 2B were from the same experiment. Fig 2. PMID: 24030632

Western Blot
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 (p/n MB-013, diluted to 1X) 30 min at 20°C, Anti-VEGF-165 (RABBIT) Antibody Peroxidase Conjugate (p/n 209-403-B99) secondary antibody was used at 1:1000 in Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) and imaged using the Bio-Rad VersaDoc® 4000 MP. Arrow indicates correct 19 kDa molecular weight position expected for rH-VEGF-165.

References

- Sreevalsan, S et al. The cannabinoid WIN 55,212-2 decreases specificity protein transcription factors and the oncogenic cap protein eIF4E in colon cancer cells. *Molecular Cancer Therapeutics* (2013)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.