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

Datasheet for 600-101-283

p47ING3 Antibody

Overview

Description:	Anti-p47 ING3 (GOAT) Antibody - 600-101-283
Item No.:	600-101-283
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	p47 ING3 is a tumor suppressor protein similar to ING1 that can interact with TP53, inhibit cell growth, and induce apoptosis. This protein contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. This gene can activate p53 trans-activated promoters, including promoters of p21/waf1 and bax. Over-expression of this gene has been shown to inhibit cell growth and induce apoptosis. Allelic loss and reduced expression of this gene were detected in head and neck cancers. Multiple alternatively spliced transcript variants have been observed. The accession number listed below is for variant (1) that encodes the longest isoform.
Synonyms:	goat anti-p47 ING3 antibody, p47ING3, ING-3, ING 3, Inhibitor of growth family member 3 antibody, Inhibitor of growth protein 3 antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ING3
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole Goat serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 285-310 of Human ING3 protein (Inhibitor of growth family, member 3).
Purity/Specificity:	This is an affinity-purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase. Reactivity occurs against human p47 ING3 protein. This sequence only shows homology to isoform 1 for ING3. The sequence is not present in isoforms 2 and 3. However, 100% homology is on record for this protein from human, dog, rat, chimpanzee and orangutan. Cross reactivity with p47 ING3 protein from mouse and chicken sources is also expected based on high homology (one amino acid change in sequence) by BLAST. Reactivity with p47 ING3 proteins from other sources is not known.
Relevant Links:	• NCBI - 38201655 • UniProtKB - Q9NXR8 • GeneID - 54556

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA against the immunizing peptide. Specific conditions for western blotting reactivity should be optimized by the end user. Expect a band at approximately 47 kDa in size corresponding to ING3 isoform 1 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.
ELISA:	1:10,000 - 1:40,000
WB:	1:200 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.10 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) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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

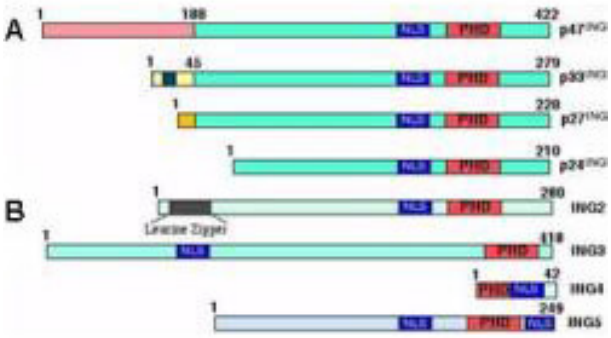
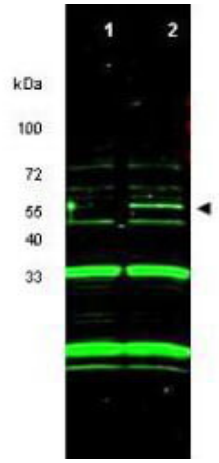


Diagram
Panel A shows the four isoforms of ING1 generated by alternative splicing. Panel B shows four additional ING proteins 2-5 that also contain similar motifs, namely, PHD domains, NLS motifs, and, for ING2, a leucine zipper domain which promotes protein interactions through hydrophobic interactions.



Western Blot
Western blot using Rockland's purified anti-ING3 antibody shows detection of a band at ~55 kDa corresponding to ING3 in RKO cells transfected with ING3 (lane 2). Control RKO cells do not show detection of this specific band (lane 1). The identity of the non-specific bands at 33 kDa and 20 kDa has not been determined. Each lane contains approximately 10 µg of RKO whole cell lysate (ATCC# CRL-2577 - human colon cancer) separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred to nitrocellulose. After blocking with 5% NF dry milk, the membrane was probed with the primary antibody diluted to 1:1,000. Incubation was at 4° C overnight followed by washes and reaction with a 1:20,000 dilution of IRDye™800 conjugated Rb-a-Goat IgG [H&L] MXHu (605-432-013) for 45 min at room temperature. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

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