Datasheet for ABIN129551

anti-ING3 antibody (AA 285-310)

2 Images

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Overview

Quantity:	100 µg
Target:	ING3
Binding Specificity:	AA 285-310
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	p47ING3 Antibody
Immunogen:	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). Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	Reactivity occurs against human p47 ING3 protein.
Characteristics:	Synonyms: goat anti-p47 ING3 antibody, p47ING3, ING-3, ING 3, Inhibitor of growth family member 3 antibody, Inhibitor of growth protein 3 antibody
Purification:	This is an affinity-purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase.
Sterility:	Sterile filtered

Target Details

Target:	ING3
Alternative Name:	ING3 (ING3 Products)
Background:	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.
Gene ID:	54556, 38201655
UniProt:	Q9NXR8

Application Details

Application Notes:	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. Western Blot Dilution: 1:200 - 1:2,000 ELISA Dilution: 1:10,000 - 1:40,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.10 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images

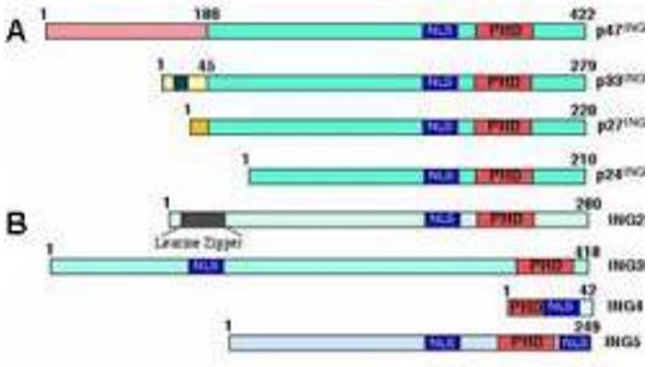
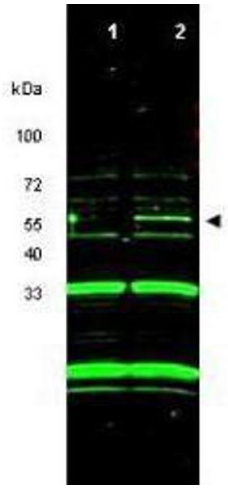


Image 1. Panel A shows the four isoforms of ING1 generated by alternative splicing. Panel B shows four additional ING proteins 2-5 that also contain similar motifs, namely, PHD domains, NLS motifs, and, for ING2, a leucine zipper domain which promotes protein interactions through hydrophobic interactions.



Western Blotting

Image 2. Western blot using 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 of800 conjugated Rb-a-Goat IgG [H&L] MXHu for 45 min at room temperature.800 fluorescence image was captured using the Infrared

Images

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