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Datasheet for 600-101-285

p28ING5 Antibody

Overview

Description:	Anti-p28 ING5 (GOAT) Antibody - 600-101-285
Item No.:	600-101-285
Size:	100 µg
Applications:	ELISA, WB, IP
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	p28 ING5 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 protein can bind TP53 and EP300/p300, a component of the histone acetyl transferase complex, suggesting its involvement in TP53-dependent regulatory pathway. Multiple alternatively spliced transcript variants have been observed. The accession number listed below is for variant (1) encodes the longest isoform.
Synonyms:	goat anti-p28 ING5 Antibody, p28ING5, ING-5 antibody, ING 5, Inhibitor of growth family member 5 antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ING5
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 125-150 of Human p28 ING5 protein (Inhibitor of growth family, member 5).

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 p28 ING5 protein. The sequence is present in both isoforms 1 and 2. However, 100% homology is on record for this protein from human and chimpanzee. Cross reactivity with p28 ING5 protein from frog, mouse, rat and chicken may not occur as sequence homology varies by one or more amino acids residues in this sequence as indicated by BLAST analysis. Reactivity with p28 ING5 proteins from other sources is not known.
Relevant Links:	• NCBI - 18644730 • UniProtKB - Q8WYH8 • GeneID - 84289

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IP (Based on references)
Application Note:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 28 kDa or 26 kDa in size corresponding to variants of ING5 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:	1:4,000 - 1:16,000
WB:	1:500 - 1:1,000

Formulation

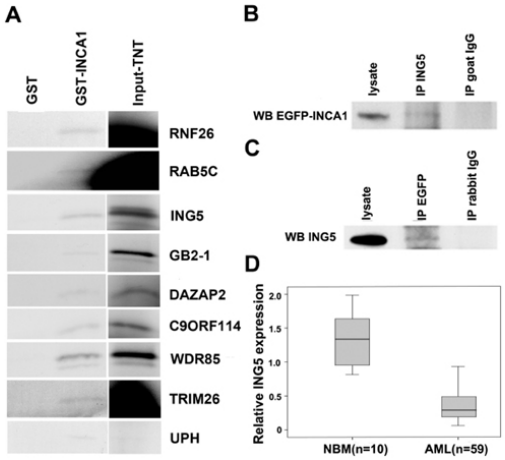
Physical State:	Liquid (sterile filtered)
Concentration:	1.52 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

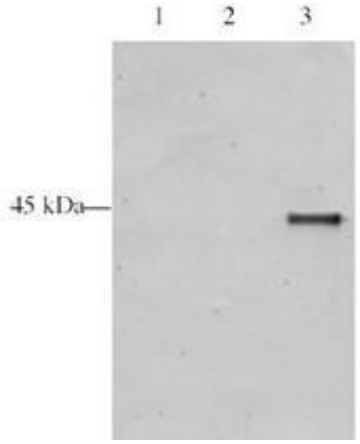
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
(A) In GST pull-down assays, GST alone or GST fused to INCA1, were incubated with [35S] labeled genes which were selected through a yeast two-hybrid (Y2H) screening. Nine known genes were confirmed to interact with INCA1 in vitro. (B) COS-7 cells were transfected with EGFP-INCA1 and ING5. Immunoprecipitation with anti-EGFP antibody and subsequent Western blotting for ING5 demonstrated the in vivo interaction of ING5 and INCA1. (C) Immunoprecipitation with anti-ING5 antibody and subsequent Western blotting for EGFP-INCA1 confirmed the in vivo interaction. (D) Ing5 gene expression was decreased in AML specimens as determined by quantitative real-time RT-PCR assays based on Taqman technology. AML specimens were obtained at the time of diagnosis (p = 0.02). Fig 1. PMID: 21750715

Western Blot
Western blot analysis is shown using Rockland's Affinity Purified anti-p28 ING5 antibody to detect over expressed Human ING5 present in cell extracts. This western blot shows reactivity with purified recombinant human ING5 protein. Comparison to a molecular weight marker (not shown) indicates a single band of ~36 kDa corresponding to the expected molecular weight for the recombinant protein. Approximately 10 µg of lysate was separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1,500. Incubation was overnight at 4° C 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.



Western Blot
Western blot analysis is shown using Rockland's Affinity Purified anti-p28 ING5 antibody to detect over expressed Human ING5 present in HeLa cell nuclear extracts. This western blot shows reactivity with purified recombinant TAP tagged human ING5 protein (lane 3) and does not recognize TAP tagged ING4 on the same membrane (lane 2). A mock purification is shown in lane 1. Comparison to a molecular weight marker (not shown) indicates a single band of ~45.0 kDa corresponding to the expected molecular weight for the recombinant protein. The blot was incubated with a 1:500 dilution of the antibody at room temperature followed by detection using chemiluminescence reagent with a 5-min exposure time. Other detection systems will yield similar results. Personal communication Jacques Cote.

References

- Zhang F et al. The inhibitor of growth protein 5 (ING5) depends on INCA1 as a co-factor for its antiproliferative effects. *PLoS One.* (2011)

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