



Datasheet for ABIN105223

## anti-ING4 antibody (Isoform 1)



[Go to Product page](#)

1 Image

2 Publications

### Overview

Quantity:	100 µg
Target:	ING4
Binding Specificity:	AA 164-175, Isoform 1
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This ING4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

### Product Details

Immunogen:	This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding aa 164-175 of Human p29 ING4 protein (Inhibitor of growth family, member 4). This sequence only shows homology to for ING4.
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

### Target Details

Target:	ING4
Alternative Name:	p29 ING4 ( <a href="#">ING4 Products</a> )
Background:	P29 ING4 is a tumor suppressor protein similar to ING1 that may inhibit tumor progression by modulating the transcriptional output of signaling pathways which regulate cell proliferation.

## Target Details

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p29 ING4 has been shown to suppress brain tumor angio-genesis through transcriptional repression of RelA/ NFkB3 target genes when complexed with RelA. p29 ING4 may also specifically suppress loss of contact inhibition elicited by activated oncogenes such as MYC. p29 ING4 shows a nuclear localization and interacts with EP300, TP53, RelA, inhibits cell growth, and induces apoptosis. This protein contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. Multiple alternatively spliced transcript variants have been observed. The accession number listed below is for variant (1) that encodes the longest isoform.

Synonyms: NG-4 antibody, ING1 like protein antibody, Inhibitor of growth family member 4 antibody, Inhibitor of growth family member 4 long isoform antibody, Inhibitor of growth protein 4 antibody, MGC12557 antibody

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Gene ID: 51147

UniProt: [Q9UNL4](#)

## Application Details

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Application Notes: 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 29 kDa in size corresponding to ING4 isoform 1 by western blotting in the appropriate cell lysate or extract.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1.28 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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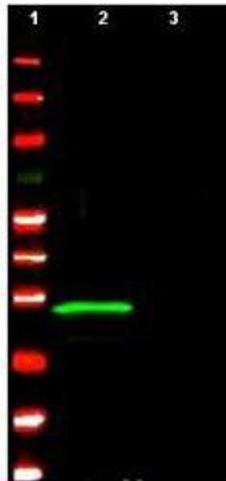
Storage: -20 °C

## Publications

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Product cited in: Hawryluk-Gara, Shibuya, Wozniak: "Vertebrate Nup53 interacts with the nuclear lamina and is

required for the assembly of a Nup93-containing complex." in: **Molecular biology of the cell**, Vol. 16, Issue 5, pp. 2382-94, (2005) ([PubMed](#)).



#### Western Blotting

**Image 1.** Anti-p29 ING4 polyclonal antibody detects ING4 protein by western blot. This antibody was used at 1.0 µg/ml to detect ING4 (lane 2) present in a U2OS whole cell lysate over expressing the protein. A control lysate (lane 3) shows no background staining. Comparison to MW markers (lane 1) indicates detection of a single band at ~29 kDa corresponding to ING4. A 4-20% TRIS-glycine gradient gel was used to separate the protein by SDS-PAGE under reducing conditions. The protein was transferred to nitrocellulose using standard methods. After blocking using 5% non-fat dry milk in PBS, the membrane was probed with the primary antibody overnight at 4° C followed by washes and reaction with a 1:20,000 dilution of 800 conjugated Rb-a-Goat IgG [H&L] (code 605-432-013) for 45 min at room temperature. LICOR's Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results.