

Datasheet for ABIN105223

anti-ING4 antibody (AA 150-175)



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Overview

Quantity:	100 µg
Target:	ING4
Binding Specificity:	AA 150-175
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This ING4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	p29ING4 Antibody
Immunogen:	<p>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 150-175 of Human p29 ING4 protein (Inhibitor of growth family, member 4). This sequence only shows homology to isoform 1 for ING4.</p> <p>Immunogen Type: Conjugated Peptide</p>
Isotype:	IgG
Cross-Reactivity (Details):	Reactivity occurs against human p29 ING4 protein.
Characteristics:	<p>Synonyms: goat anti-p29 ING4 antibody, p29ING4, ING 4, ING-4, Inhibitor of growth family member 4 antibody, Inhibitor of growth family member 4 long isoform antibody, Inhibitor of growth protein 4 antibody, MGC12557 antibody</p>

Product Details

Purification:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase.
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Sterility:	Sterile filtered
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Target Details

Target:	ING4
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Alternative Name:	ING4 (ING4 Products)
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Background:	<p>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. 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.</p>
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Gene ID:	51147
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UniProt:	Q9UNL4
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Application Details

Application Notes:	<p>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 29 kDa in size corresponding to ING4 isoform 1 by western blotting in the appropriate cell lysate or extract.</p>
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Western Blot Dilution: 1:500 - 1:3,000

ELISA Dilution: 1:3,000 - 1:12,000

Other: User Optimized

Restrictions:	For Research Use only
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Handling

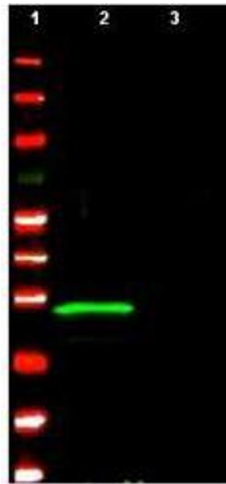
Format:	Liquid
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Handling

Concentration:	1.28 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.
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

Publications

Product cited in:	<p>Colla, Tagliaferri, Morandi, Lunghi, Donofrio, Martorana, Mancini, Lazzaretti, Mazzera, Ravanetti, Bonomini, Ferrari, Miranda, Ladetto, Neri, Neri, Greco, Mangoni, Bonati, Rizzoli, Giuliani et al.: "The new tumor-suppressor gene inhibitor of growth family member 4 (ING4) regulates the production of proangiogenic molecules by myeloma cells and suppresses hypoxia-inducible factor-1 alpha ..." in: Blood, Vol. 110, Issue 13, pp. 4464-75, (2007) (PubMed).</p> <p>Unoki, Shen, Zheng, Harris: "Novel splice variants of ING4 and their possible roles in the regulation of cell growth and motility." in: The Journal of biological chemistry, Vol. 281, Issue 45, pp. 34677-86, (2006) (PubMed).</p>
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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.