

ARG59926 anti-ING4 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ING4
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Specificity	The antibody might also react to ING5 based on sequence homology analysis (64%).
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ING4
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-190 of Human ING4 (NP_001121054.1).
Conjugation	Un-conjugated
Alternate Names	p29ING4; my036; Inhibitor of growth protein 4

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse spleen and A549	
Observed Size	52 kDa	

Properties

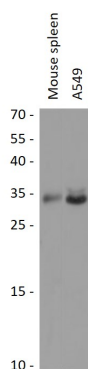
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ING4
Gene Full Name	inhibitor of growth family, member 4
Background	This gene encodes a tumor suppressor protein that 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 the TP53-dependent regulatory pathway. Multiple alternatively spliced transcript variants have been observed that encode distinct proteins. [provided by RefSeq, Jul 2008]
Function	Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Through chromatin acetylation it may function in DNA replication. May inhibit tumor progression by modulating the transcriptional output of signaling pathways which regulate cell proliferation. Can suppress brain tumor angiogenesis through transcriptional repression of RELA/NFKB3 target genes when complexed with RELA. May also specifically suppress loss of contact inhibition elicited by activated oncogenes such as MYC. Represses hypoxia inducible factor's (HIF) activity by interacting with HIF prolyl hydroxylase 2 (EGLN1). Can enhance apoptosis induced by serum starvation in mammary epithelial cell line HC11 (By similarity). [UniProt]
Calculated Mw	29 kDa
PTM	Citrullination by PADI4 within the nuclear localization signal disrupts the interaction with p53 and increases susceptibility to degradation. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



ARG59926 anti-ING4 antibody WB image

Western blot: 25 µg of Mouse spleen and A549 cell lysates stained with ARG59926 anti-ING4 antibody at 1:1000 dilution.