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ING4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20568a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9UNL4
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB47839
Calculated MW	28530

Additional Information

Gene ID	51147
Other Names	Inhibitor of growth protein 4, p29ING4, ING4
Target/Specificity	This ING4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 162-195 amino acids from the C-terminal region of human ING4.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ING4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ING4
Function	Component of HBO1 complexes, which specifically mediate acetylation of histone H3 at 'Lys-14' (H3K14ac), and have reduced activity toward histone H4 (PubMed:16387653). Through chromatin acetylation it may function in DNA replication (PubMed:16387653). May inhibit tumor progression by modulating the transcriptional output of signaling pathways which regulate cell

proliferation (PubMed:15251430, PubMed:15528276). Can suppress brain tumor angiogenesis through transcriptional repression of RELA/NFKB3 target genes when complexed with RELA (PubMed:15029197). May also specifically suppress loss of contact inhibition elicited by activated oncogenes such as MYC (PubMed:15029197). Represses hypoxia inducible factor's (HIF) activity by interacting with HIF prolyl hydroxylase 2 (EGLN1) (PubMed:15897452). Can enhance apoptosis induced by serum starvation in mammary epithelial cell line HC11 (By similarity).

Cellular Location Nucleus

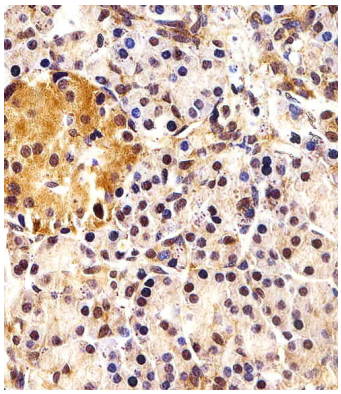
Background

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).

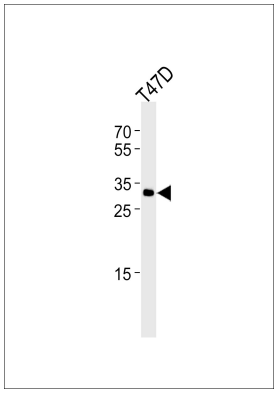
References

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Mao Y.M.,et al.Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.
Hu R.-M.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).

Images



Immunohistochemical analysis of paraffin-embedded H.pancreas section using ING4 Antibody (C-term)(Cat#AP20568a). AP20568a was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Western blot analysis of lysate from T47D cell line, using ING4 Antibody (C-term)(Cat. #AP20568a). AP20568a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.