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Rabbit Anti-ING4 antibody

SL10492R

Product Name	ING4
Chinese Name	ING4 抗体
Alias	Brain my036 protein; Candidate tumor suppressor p33 ING 1 homolog; Candidate tumor suppre homolog; Candidate tumor suppressor p33 ING1 homolog; D6Wsu147e; D6Xrf92; ING 1 like p ING-1 like protein; ING-4; ING1 like protein; ING4; ING4_HUMAN; Inhibitor of growth famil Inhibitor of growth family member 4 long isoform; Inhibitor of growth protein 4; MGC12557; m 4; p29 ING-4; p29 ING4; p29ING4; My036; inhibitor of growth protein 4 isoform 1.
Research Area	Tumour Developmental biology Chromatin and nuclear signals transcriptional regulatory factor
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Pig, Cow, Horse, Rabbit, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	27kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ING4: 21-120/249
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d

applications.

PubMed PubMed

This gene encodes a tumor suppressor protein that contains a PHD-finger, which is a common m involved in chromatin remodeling. This protein can bind TP53 and EP300/p300, a component of acetyl transferase complex, suggesting its involvement in the TP53-dependent regulatory pathwa alternatively spliced transcript variants have been observed that encode distinct proteins. [provid Jul 2008].

Product Detail

Function:
Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a r toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Through chr acetylation it may function in DNA replication. May inhibit tumor progression by modulating the output of signaling pathways which regulate cell proliferation. Can suppress brain tumor angiog transcriptional repression of RELA/NFKB3 target genes when complexed with RELA. May also suppress loss of contact inhibition elicited by activated oncogenes such as MYC. Represses hypo factor's (HIF) activity by interacting with HIF prolyl hydroxylase 2 (EGLN1).

Subunit:
Homodimer. Interacts with H3K4me3 and to a lesser extent with H3K4me2, the interaction augm acetylation activity on H3 tails. Component of the HBO1 complex composed at least of ING4 or KAT7/HBO1, MEAF6, and one of PHF15, PHF16 and PHF17. Interacts with EP300, RELA and interactions may be indirect. Interacts with EGLN1.

Subcellular Location:
Nucleus.

Post-translational modifications:
Citrullination by PADI4 within the nuclear localization signal disrupts the interaction with p53 a susceptibility to degradation.

Similarity:
Belongs to the ING family.
Contains 1 PHD-type zinc finger.

SWISS:
Q9UNL4

Gene ID:
51147

Database links:

Entrez Gene: 51147 Human

Entrez Gene: 28019 Mouse

Entrez Gene: 297597 Rat

Omim: 608524 Human

SwissProt: Q9UNL4 Human

SwissProt: Q8C0D7 Mouse

Unigene: 524210 Human

Unigene: 262547 Mouse

Unigene: 347910 Mouse

Unigene: 48967 Rat