For Research Use Only

ING4-specific Polyclonal antibody

Catalog Number:16188-1-AP 7 Publications

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Basic Information

Catalog Number:
16188-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_001127582

GeneID (NCBI):
51147

UNIPROT ID:
Q9UNL4

Full Name:
inhibitor of growth family, member 4

Calculated MW:
29 kDa

Observed MW:
29-32 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : Jurkat cells, HEK-293 cells, HeLa cells, mouse colon tissue

IP : HeLa cells,

IHC : human brain tissue, human liver cancer tissue

IF/ICC : HepG2 cells,

Background Information

ING4, also named as p29ING4, belongs to the ING family. It is a 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. It may inhibit tumor progression by modulating the transcriptional output of signaling pathways which regulate cell proliferation. ING4 can suppress brain tumor angiogenesis through transcriptional repression of RELA/NFKB3 target genes when complexed with RELA. It 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). ING4 is a tumor suppressor gene that interacts with NFkB and represses its transcriptional activity. Several lines of evidence suggest that the tumor suppressor gene ING4, NFkB and its target genes matrix metalloproteases MMP-2, MMP-9 and u-PA are critically involved in tumor invasion. This antibody is specifically against p29ING4.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhang Guohong G	23028750	PLoS One	IHC
Xin Ren	27484725	Mol Med Rep	IHC
Li Xiao-han XH	21310648	Oral Oncol	WB,IHC,IF

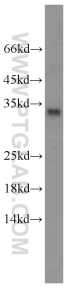
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

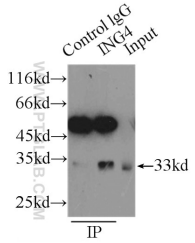
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

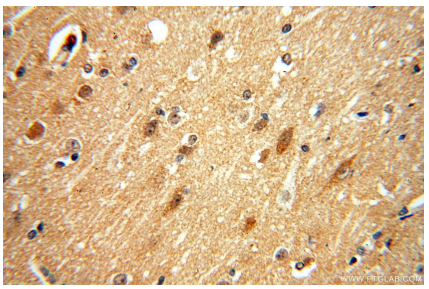
Selected Validation Data



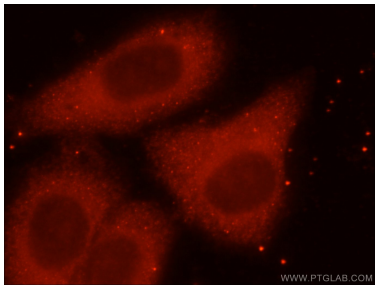
Jurkat cells were subjected to SDS PAGE followed by western blot with 16188-1-AP (ING4-specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-ING4-specific (IP:16188-1-AP, 3ug; Detection:16188-1-AP 1:300) with HeLa cells lysate 2500ug.



Immunohistochemical analysis of paraffin-embedded human brain using 16188-1-AP (ING4-specific antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 16188-1-AP (ING4-specific antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.