

For Research Use Only

# ING4 Polyclonal antibody

Catalog Number: 10617-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

10617-1-AP

### Size:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0960

### GenBank Accession Number:

BC007781

### GeneID (NCBI):

51147

### UNIPROT ID:

Q9UNL4

### Full Name:

inhibitor of growth family, member 4

### Calculated MW:

29 kDa

### Observed MW:

29 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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:** HEK-293 cells, HeLa cells, C6 cells, mouse brain tissue, rat brain tissue

**IP:** HEK-293 cells,

**IHC:** human thyroid cancer tissue,

## 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 a rabbit polyclonal antibody raised against full length human ING4 antigen.

## Notable Publications

Author	Pubmed ID	Journal	Application
You Qi Q	21626442	Pathol Oncol Res	IHC
Tzouvelekis Argyris A	23181555	BMC Res Notes	IHC
Liyu Cao	26045800	Int J Clin Exp Pathol	IHC

## 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

For technical support and original validation data for this product please contact:

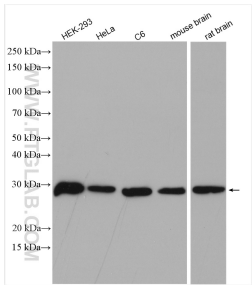
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

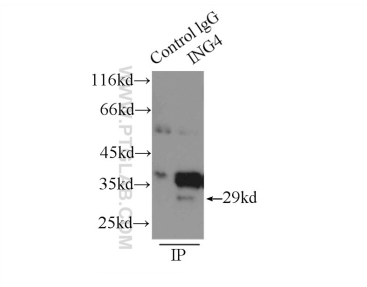
W: [ptgcn.com](http://ptgcn.com)

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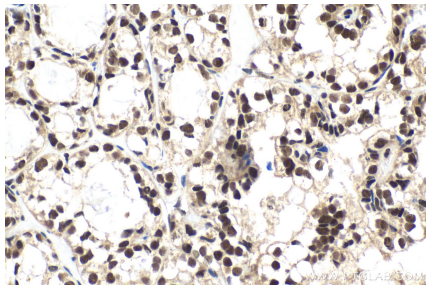
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10617-1-AP (ING4 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-ING4 (IP:10617-1-AP, 3ug; Detection:10617-1-AP 1:200) with HEK-293 cells lysate 2700ug.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 10617-1-AP (ING4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).