

# ING4 Polyclonal antibody

Catalog Number: 10896-1-AP

## Basic Information

**Catalog Number:**

10896-1-AP

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1332

**GenBank Accession Number:**

BC013038

**GeneID (NCBI):**

51147

**UNIPROT ID:**

Q9UNL4

**Full Name:**

inhibitor of growth family, member 4

**Calculated MW:**

29 kDa

**Observed MW:**

29-35 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Species Specificity:**

human, mouse, rat

**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, rat brain tissue

IHC : mouse brain 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 residues near the C terminus of human ING4.

## 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

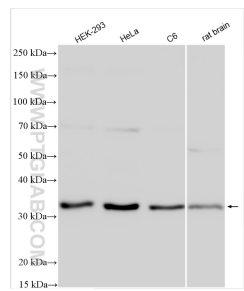
For technical support and original validation data for this product please contact:

T: 4006900926

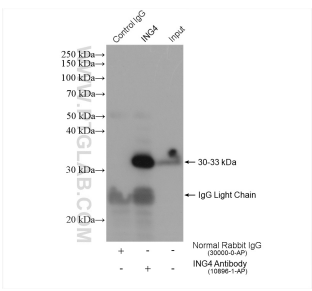
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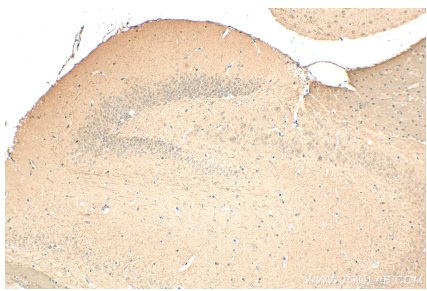
Selected Validation Data



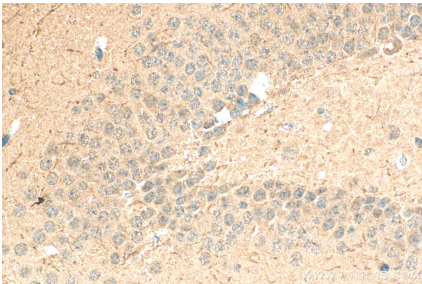
Various lysates were subjected to SDS PAGE followed by western blot with 10896-1-AP (ING4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-ING4 (IP:10896-1-AP, 4ug; Detection:10896-1-AP 1:2000) with HEK-2993 cells lysate 1280 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10896-1-AP (ING4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10896-1-AP (ING4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).