

**ING4 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20568a****Specification**

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**ING4 Antibody (C-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">Q9UNL4</a>
Other Accession	<a href="#">Q9D8Y8</a> , <a href="#">Q8WYH8</a> , <a href="#">Q8C0D7</a> , <a href="#">Q5ZKY4</a> , <a href="#">Q3T095</a>
Reactivity	Human
Predicted	Bovine, Chicken, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28530

**ING4 Antibody (C-term) - 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**

IHC-P~~1:25

WB~~1:1000

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.

**ING4 Antibody (C-term) - 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

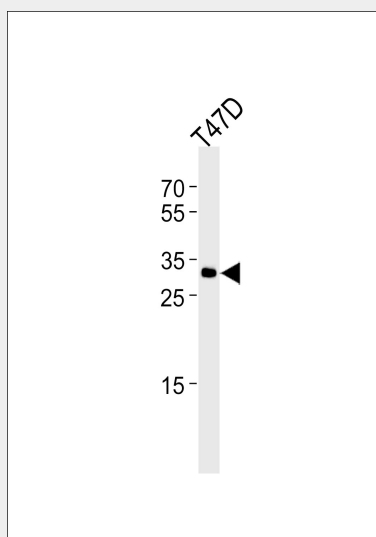
Nucleus

#### ING4 Antibody (C-term) - Protocols

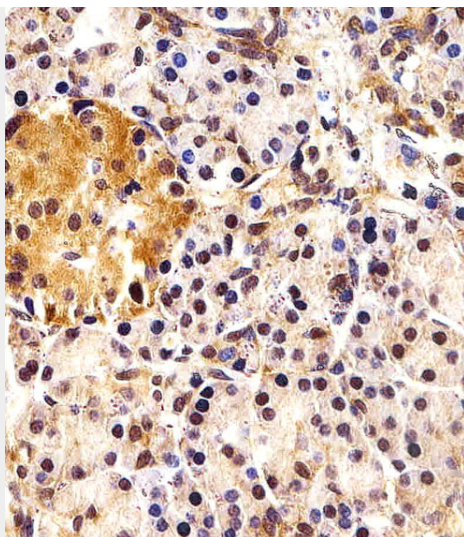
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### ING4 Antibody (C-term) - Images



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.



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.

#### **ING4 Antibody (C-term) - 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).

#### **ING4 Antibody (C-term) - References**

Shiseki M.,et al.Cancer Res. 63:2373-2378(2003).  
Unoki M.,et al.J. Biol. Chem. 281:34677-34686(2006).  
Raho G.,et al.Oncogene 26:5247-5257(2007).  
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).