

**ING4 Polyclonal Antibody**  
**Catalog # AP73220****Specification****ING4 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9UNL4</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**ING4 Polyclonal Antibody - Additional Information****Gene ID 51147****Other Names**

ING4; My036; Inhibitor of growth protein 4; p29ING4

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**ING4 Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/16387653" target="\_blank">16387653</a>). Through chromatin acetylation it may function in DNA replication (PubMed:<a href="http://www.uniprot.org/citations/16387653" target="\_blank">16387653</a>). May inhibit tumor progression by modulating the transcriptional output of signaling pathways which regulate cell proliferation (PubMed:<a href="http://www.uniprot.org/citations/15251430" target="\_blank">15251430</a>, PubMed:<a href="http://www.uniprot.org/citations/15528276" target="\_blank">15528276</a>). Can suppress brain tumor angiogenesis through transcriptional repression of RELA/NFKB3 target genes when complexed with RELA (PubMed:<a href="http://www.uniprot.org/citations/15029197" target="\_blank">15029197</a>). May also specifically suppress loss of contact inhibition elicited by activated oncogenes such as MYC (PubMed:<a href="http://www.uniprot.org/citations/15029197" target="\_blank">15029197</a>). Represses hypoxia inducible factor's (HIF) activity by interacting with HIF prolyl hydroxylase 2 (EGLN1) (PubMed:<a href="http://www.uniprot.org/citations/15897452" target="\_blank">15897452</a>). Can enhance apoptosis induced by serum starvation in

mammary epithelial cell line HC11 (By similarity).

#### Cellular Location

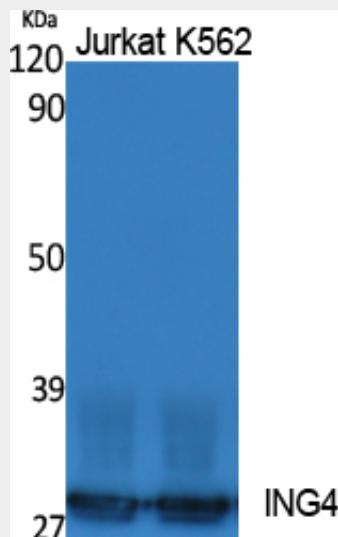
Nucleus

#### ING4 Polyclonal Antibody - 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 Polyclonal Antibody - Images



Western Blot analysis of extracts from Jurkat, K562 cells, using ING4 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

#### ING4 Polyclonal Antibody - 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). Can enhance apoptosis induced by serum starvation in mammary epithelial cell line HC11 (By similarity).