

## Anti-ING5 Antibody (6I821)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6I821
Purification:	Protein A

### Applications

Verified Activity:	<p>1. ING5 was immunoprecipitated using:</p> <ul style="list-style-type: none"><li>-Lane A:0.5 mg HepG2 Whole Cell Lysate.</li><li>-2 <math>\mu</math>L anti-ING5 rabbit monoclonal antibody and 15 <math>\mu</math>L of 50 % Protein G agarose.</li><li>-Primary antibody:</li><li>-Anti-ING5 rabbit monoclonal antibody, at 1:100 dilution.</li><li>-Secondary antibody:</li><li>-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.</li><li>-Developed using the odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size: 28 kDa.</li><li>-Observed band size: 32 kDa.</li></ul> <p>2. Anti-ING5 rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"><li>-Lane A: HepG2 Whole Cell lysate.</li><li>-Lysates/proteins at 30 <math>\mu</math>g per lane.</li><li>-Secondary</li><li>-Goat Anti-Rabbit IgG H&amp;L (Dylight800) at 1/10000 dilution.</li><li>-Developed using the Odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size:28 kDa.</li><li>-Observed band size:34 kDa(We are unsure as to the identity of these extra bands.)</li></ul>
Application:	ELISA,IP,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:5000-1:10000; IP: 1-4 $\mu$ L/mg of lysate

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Human ING5 Protein (TMPY-02981)

Antigen Species: Human

Synonyms: p28ING5;inhibitor of growth family, member 5

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### Research Background

ING5 belongs to the ING family. It contains 1 PHD-type zinc finger and is a component of the HBO1 complex. HBO1 complex 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. HBO1 complex composed at least of ING4 or ING5, KAT7/HBO1, MEAF6, and one of PHF15, PHF16, and PHF17. ING5 also is a component of the MOZ/MORF complex which is composed at least of ING5, KAT6A, KAT6B, MEAF6, and one of BRPF1, BRD1/BRPF2, and BRPF3. It interacts with EP300 and TP53. MOZ/MORF complex has a histone H3 acetyltransferase activity. Through chromatin acetylation, ING5 may regulate DNA replication and may function as a transcriptional coactivator. It interacts with H3K4me3 and to a lesser extent with H3K4me2. ING5 is similar to ING1, a tumor suppressor protein that can interact with TP53, inhibit cell growth, and induce apoptosis. It can bind TP EP300/p300, a component of the histone acetyltransferase complex, suggesting its involvement in the TP53-dependent regulatory pathway.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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