

# Anti-KAT3B / p300 Antibody [PSH15-31]



HA723737

<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat, Monkey
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 264 kDa
<b>Clone number:</b>	PSH15-31

**Description:** Histone acetyltransferase p300 also known as p300 HAT or E1A-associated protein p300 (where E1A = adenovirus early region 1A) also known as EP300 or p300 is an enzyme that, in humans, is encoded by the EP300 gene. It functions as histone acetyltransferase that regulates transcription of genes via chromatin remodeling by allowing histone proteins to wrap DNA less tightly. This enzyme plays an essential role in regulating cell growth and division, prompting cells to mature and assume specialized functions (differentiate), and preventing the growth of cancerous tumors. The p300 protein appears to be critical for normal development before and after birth.

**Immunogen:** Recombinant protein within human KAT3B / p300 aa 51-350.

**Positive control:** 293T cell lysate, HeLa cell lysate, Jurkat cell lysate, LoVo cell lysate, C2C12 cell lysate, PC-12 cell lysate, COS-1 cell lysate, 293T.

**Subcellular location:** Cytoplasm, Nucleus, Chromosome.

**Database links:** SwissProt: Q09472 Human | B2RWS6 Mouse  
Entrez Gene: 170915 Rat

**Recommended Dilutions:**

<b>WB</b>	1:5,000
<b>IF-Cell</b>	1:100

**Storage Buffer:** 1\*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

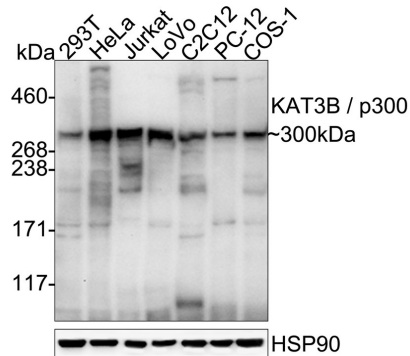
Technical:0086-571-89986345

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## Images

**Fig1:** Western blot analysis of KAT3B / p300 on different lysates with Rabbit anti-KAT3B / p300 antibody (HA723737) at 1/5,000 dilution.



Lane 1: 293T cell lysate  
 Lane 2: HeLa cell lysate  
 Lane 3: Jurkat cell lysate  
 Lane 4: LoVo cell lysate  
 Lane 5: C2C12 cell lysate  
 Lane 6: PC-12 cell lysate  
 Lane 7: COS-1 cell lysate

Lysates/proteins at 20 µg/Lane.

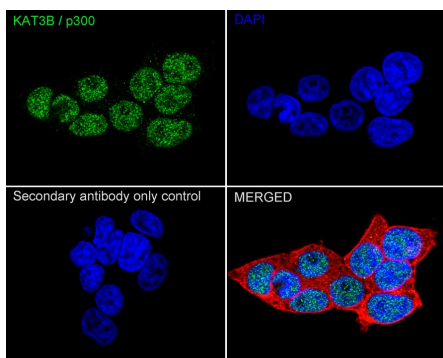
Predicted band size: 264 kDa  
 Observed band size: 300 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723737) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Immunocytochemistry analysis of 293T cells labeling KAT3B / p300 with Rabbit anti-KAT3B / p300 antibody (HA723737) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-KAT3B / p300 antibody (HA723737) at 1/100 dilution in 1% BSA in PBST overnight at 4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (HA601187, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Nicosia L et al. Therapeutic targeting of EP300/CBP by bromodomain inhibition in hematologic malignancies. *Cancer Cell*. 2023 Dec
2. Durbin AD et al. EP300 Selectively Controls the Enhancer Landscape of MYCN-Amplified Neuroblastoma. *Cancer Discov*. 2022 Mar

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