KAT3B/p300 Rabbit mAb

Catalog NO.: A29300 Recombinant

Basic Information

Observed MW
300 kDa

Calculated MW
263 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, ChIP, ELISA

Cross-Reactivity
Human, Mouse, Rat

Conjugation
Unconjugated

Clone number
ARC3962

Background

Enables several functions, including N-acyltransferase activity; p53 binding activity; and transcription coactivator activity. Involved in several processes, including face morphogenesis; protein acylation; and protein stabilization. Acts upstream of or within several processes, including hemopoiesis; regulation of gene expression; and somitogenesis. Part of histone acetyltransferase complex and transcription regulator complex. Is expressed in several structures, including early conceptus; eye; heart; nervous system; and skin. Used to study systemic lupus erythematosus. Human ortholog(s) of this gene implicated in Rubinstein-Taybi syndrome; colorectal cancer; congestive heart failure; and idiopathic pulmonary fibrosis. Orthologous to human EP300 (E1A binding protein p300).

Recommended Dilutions

WB 1:2000-1:50000

IP
0.5 μg - 4 μg antibody for 200 μg - 600 μg extracts of whole cells

ChIP 2 μg antibody for 15 μg - 20 μg of Chromatin

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (⩾1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
328572

Swiss Prot
B2RWS6

Immunogen
This information is considered to be commercially sensitive.

Synonyms
p300; KAT3B; p300 HAT; A430090G16; A730011L11

Contact

Product Information

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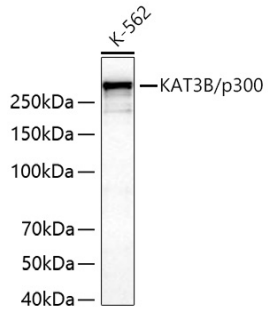
Source
Rabbit

Isotype
IgG

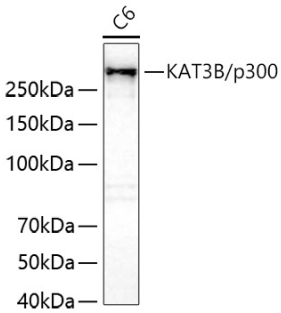
Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

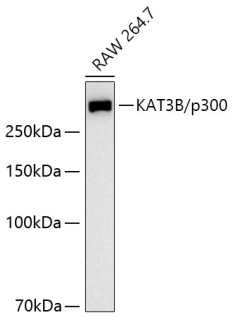
Validation Data



Western blot analysis of lysates from K-562 cells using KAT3B/p300 Rabbit mAb (A29300) at 1:4000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.



Western blot analysis of lysates from C6 cells using KAT3B/p300 Rabbit mAb (A29300) at 1:4000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



Western blot analysis of lysates from RAW 264.7 cells using KAT3B/p300 Rabbit mAb (A29300) at 1:25000 dilution incubated overnight at 4°C.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

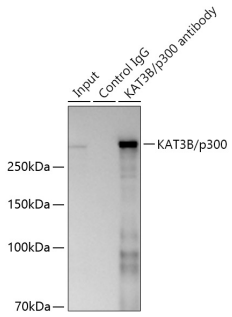
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

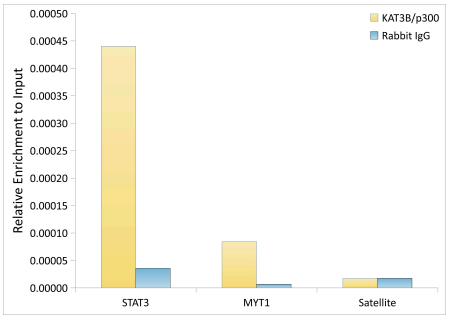
Detection: ECL Basic Kit (RM00020).

Exposure time: 5 s.

Validation Data



Immunoprecipitation of KAT3B/p300 from 600 µg extracts of K-562 cells was performed using 2 µg of KAT3B/p300 Rabbit mAb (A29300). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using KAT3B/p300 Rabbit mAb (A29300) at a dilution of 1:1000.



Chromatin immunoprecipitation was performed with 20 µg of cross-linked chromatin from K-562 cells, using 2 µg of KAT3B/p300 Rabbit mAb (A29300) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.

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