Product datasheet

# Anti-EP300 Antibody

**Catalog Number: *A00117***

BOSTER
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-EP300 Antibody |
| **Gene Name** | EP300 |
| **Source** | Rabbit |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse |
| **Tested Application** | WB, IHC, ICC/IF, FCM |
| **Contents** | 500 ug/ml antibody with PBS, 0.02% NaN3 , 1 mg BSA and 50% glycerol. |
| **Immunogen** | A synthetic peptide corresponding to a sequence of human KAT3B/p300/EP300 (MAQPPIVPRQTPPLQHH). |
| **concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 264-300KD |
| **Dilution Ratios** | Western blot(WB): 1:500-2000<br>Immunohistochemistry in paraffin section (IHC): 1:50-400<br>Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400<br>Flow cytometry (FCM): 1-3μg/1x$10^6$ cells<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

## Background Information

E1A binding protein p300 also known as EP300 or p300 is a protein that in humans is encoded by the EP300 gene. The EP300 gene is located on the long (q) arm of the human chromosome 22 at position 13.2. This protein regulates the activity of many genes in tissues throughout the body. It 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 EP300 protein appears to be critical for normal development before and after birth. It carries out its function by activating transcription. In addition, the protein functions as histone acetyltransferase that regulates transcription via chromatin remodeling, and is important in the processes of cell proliferation and differentiation. EP300 also mediates cAMP-gene regulation by binding specifically to phosphorylated CREB protein.

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# Selected Validation Data

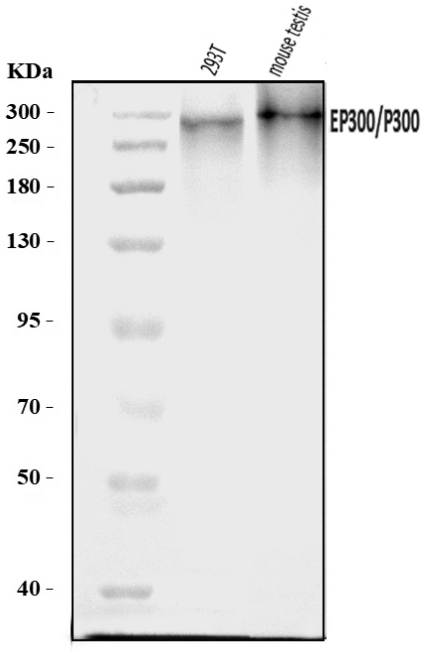


Figure 1. Western blot analysis of anti- EP300 Antibody (A00117). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: 293T whole cell lysates,
Lane 2: mouse testis tissue lysates.
Use rabbit anti- EP300/P300 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for EP300/P300 at approximately 264-300KD. The expected band size for EP300/P300 is at 264KD.