

Rabbit Histone acetyltransferase p300 Polyclonal Antibody | anti-EP300 antibody

Anti-KAT3B/p300 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46064	Rabbit	Human, Mouse, Rat. No cross reactivity with other proteins.	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Histone acetyltransferase p300; Polyclonal Antibody; Anti-KAT3B/p300 Antibody; CREBBP/EP300 inhibitory protein 1 antibody; Cyclic AMP responsive enhancer binding protein antibody; E1A associated protein p300 antibody; E1A binding protein p300 antibody; E1A-associated protein p300 antibody; EC 2.3.1.48 antibody; EP300 antibody; EP300: E1A binding protein p300 antibody; EP300_HUMAN antibody; Histone acetyltransferase p300 antibody; KAT3B antibody; p300 HAT antibody; RB and P300 binding protein EID 1 antibody; Retinoblastoma protein associated protein antibody; RSTS2 antibody; E1A binding protein p300; anti-EP300 antibody

PRODUCT SPECIFICATIONS

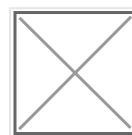
Host	Rabbit
Reactivity	Human, Mouse, Rat. No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	2414
Applicable Applications for anti-EP300 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E.coli-derived human KAT3B recombinant protein (Position: L2065-H2414). Human KAT3B shares 94% amino acid (aa) sequence identity with mouse KAT3B.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Figure 5. IHC analysis of KAT3B/p300 using anti-KAT3B/p300 antibody (AAA46064). KAT3B/p300 was detected in paraffin-embedded section of human oesophagus squama cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-KAT3B/p300 Antibody (AAA46064) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of KAT3B/p300 using anti-KAT3B/p300 antibody (AAA46064). KAT3B/p300 was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-KAT3B/p300 Antibody (AAA46064) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



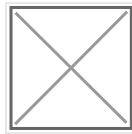
IHC (Immunohistochemisry)

Figure 3. IHC analysis of KAT3B/p300 using anti-KAT3B/p300 antibody (AAA46064).KAT3B/p300 was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-KAT3B/p300 Antibody (AAA46064) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 2. Western blot analysis of KAT3B/p300 using anti- KAT3B/p300 antibody (AAA46064).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human COLO-320 whole cell lysates,Lane 2: rat PC-12 whole cell lysates,Lane 3: mouse NIH3T3 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- KAT3B/p3008 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for KAT3B/p300 at approximately 300KD. The expected band size for KAT3B/p300 is at 264KD.



WB (Western Blot)

Figure 1. Western blot analysis of KAT3B/p300 using anti-KAT3B/p300 antibody (AAA46064).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.lane 1: recombinant human kat3b/p300 protein 0.5ng.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KAT3B/p300 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for KAT3B/p300 at approximately 50KD. The expected band size for KAT3B/p300 is at 50KD.

ADDITIONAL INFORMATION

Related Product Information for anti-EP300 antibody

Description: Rabbit IgG polyclonal antibody for Histone acetyltransferase p300(EP300) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Background: 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50345997
NCBI GeneID	2033
NCBI Accession #	NP_001420.2
NCBI GenBank Nucleotide #	NM_001429.3
UniProt Accession #	Q09472; B1AKC2
Molecular Weight	264,161 Da
NCBI Official Full Name	histone acetyltransferase p300

NCBI Official Synonym Full Names	E1A binding protein p300
NCBI Official Symbol	EP300
NCBI Official Synonym Symbols	p300; KAT3B; RSTS2
NCBI Protein Information	histone acetyltransferase p300; p300 HAT; E1A-binding protein, 300kD; E1A-associated protein p300
UniProt Protein Name	Histone acetyltransferase p300
UniProt Gene Name	EP300
UniProt Synonym Gene Names	P300; p300 HAT
UniProt Entry Name	EP300_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/histone-acetyltransferase-p300-antibody-immunohistochemistry-western-blot-elisa/46064>