

Datasheet for ABIN6263956 anti-p300 antibody (N-Term)

2 Images



Overview

Quantity:	100 μL
Target:	p300 (EP300)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p300 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human KAT3B / p300, corresponding to a region within N-terminal amino acids.
Isotype:	lgG
Specificity:	KAT3B / p300 Antibody detects endogenous levels of total KAT3B / p300.
Predicted Reactivity:	Bovine,Horse,Sheep,Rabbit,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:

p300 (EP300)

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Alternative Name:	EP300 (EP300 Products)
Background:	Description: Functions as histone acetyltransferase and regulates transcription via chromatin
	remodeling (PubMed:23415232, PubMed:23934153, PubMed:8945521). Acetylates all four cor
	histones in nucleosomes. Histone acetylation gives an epigenetic tag for transcriptional
	activation (PubMed:23415232, PubMed:23934153, PubMed:8945521). Mediates cAMP-gene
	regulation by binding specifically to phosphorylated CREB protein. Mediates acetylation of
	histone H3 at 'Lys-122' (H3K122ac), a modification that localizes at the surface of the histone
	octamer and stimulates transcription, possibly by promoting nucleosome instability. Mediates
	acetylation of histone H3 at 'Lys-27' (H3K27ac) (PubMed:23911289). Also functions as
	acetyltransferase for nonhistone targets. Acetylates 'Lys-131' of ALX1 and acts as its
	coactivator (PubMed:12929931). Acetylates SIRT2 and is proposed to indirectly increase the
	transcriptional activity of TP53 through acetylation and subsequent attenuation of SIRT2
	deacetylase function (PubMed:18722353). Acetylates HDAC1 leading to its inactivation and
	modulation of transcription (PubMed:16762839). Acts as a TFAP2A-mediated transcriptional
	coactivator in presence of CITED2 (PubMed:12586840). Plays a role as a coactivator of
	NEUROD1-dependent transcription of the secretin and p21 genes and controls terminal
	differentiation of cells in the intestinal epithelium. Promotes cardiac myocyte enlargement. Car
	also mediate transcriptional repression. Acetylates FOXO1 and enhances its transcriptional
	activity (PubMed:15890677). Acetylates BCL6 wich disrupts its ability to recruit histone
	deacetylases and hinders its transcriptional repressor activity (PubMed:12402037). Participate
	in CLOCK or NPAS2-regulated rhythmic gene transcription, exhibits a circadian association wit
	CLOCK or NPAS2, correlating with increase in PER1/2 mRNA and histone H3 acetylation on the
	PER1/2 promoter (PubMed:14645221). Acetylates MTA1 at 'Lys-626' which is essential for its
	transcriptional coactivator activity (PubMed:16617102). Acetylates XBP1 isoform 2, acetylation
	increases protein stability of XBP1 isoform 2 and enhances its transcriptional activity
	(PubMed:20955178). Acetylates PCNA, acetylation promotes removal of chromatin-bound
	PCNA and its degradation during nucleotide excision repair (NER) (PubMed:24939902).
	Acetylates MEF2D (PubMed:21030595). Acetylates and stabilizes ZBTB7B protein by
	antagonizing ubiquitin conjugation and degragation, this mechanism may be involved in
	CD4/CD8 lineage differentiation (PubMed:20810990). In addition to protein acetyltransferase,
	can use different acyl-CoA substrates, such as (2E)-butenoyl-CoA (crotonyl-CoA), butanoyl-CoA
	(butyryl-CoA) or propanoyl-CoA (propionyl-CoA), and is able to mediate protein crotonylation,
	butyrylation or propionylation, respectively (PubMed:25818647, PubMed:17267393). Acts as a
	histone crotonyltransferase, crotonylation marks active promoters and enhancers and confers
	resistance to transcriptional repressors (PubMed:25818647). Histone crotonyltransferase

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l'alget Details	
	activity is dependent on the concentration of (2E)-butenoyl-CoA (crotonyl-CoA) substrate and such activity is weak when (E)-but-2-enoyl-CoA (crotonyl-CoA) concentration is low (PubMed:25818647). Also acts as a histone butyryltransferase, butyrylation marks active promoters (PubMed:17267393). Gene: EP300
Molecular Weight:	300 kDa
Gene ID:	2033
UniProt:	Q09472
Pathways:	p53 Signaling, Notch Signaling, Interferon-gamma Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Regulation of Lipid Metabolism by PPARalpha, Regulation of Muscle Cell Differentiation, Regulation of Cell Size
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Expiry Date:

Storage Comment:

12 months

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Store at -20 °C. Stable for 12 months from date of receipt.



Western Blotting

Image 1. Western blot analysis of p300 expression in HepG2 cells. The lane on the left is treated with the antigenspecific peptide.



Immunohistochemistry

Image 2. ABIN6268907 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.