Recombinant Mouse Ep300 Protein, GST-tagged

Cat. No. Ep300-49M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Ep300 protein with a C-terminal GST-tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	165
Description	p300/(CREB binding protein) associated factor (PCAF) belongs to the GCN5/PCAF family of nuclear histone acetyltransferases (HATs). Gcn5/PCAF proteins contain a-160 residue HAT domain and a conserved bromodomain directly C-terminal to the HAT domain, which has been shown recently to be an acetyl-lysine targeting motif. PCAF acetylates specific lysines on the N-terminal tails of Histones H3 & H4 and on the transcriptional activators MyoD, E2F1, and p53. Recently, PCAF was also shown to acetylate PTEN on lysine residues K125 & K128 within the catalytic cleft thus inactivating the enzyme. In many, but not all of these cases, acetylation has been shown to enhance the DNA binding affinity of the affected protein. Although the recombinant HAT proteins will acetylate free histones, nucleosomal acetylation only occurs in the context of the in vivo HAT complex.
Molecular Mass	40 kDa
Purity	≥80% estimated by SDS-PAGE

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Applications	Enzyme Activity
Stability	≥ 6 months
Storage	Store it at -80 centigrade
Storage Buffer	50 mM sodium phosphate, pH 7.2, with 100 mM sodium chloride, 1 mM EDTA, and 20% glycerol

GENE INFORMATION

Gene Name	Ep300 E1A binding protein p300 [Mus musculus (house mouse)]
Official Symbol	Ep300
Synonyms	Ep300; E1A binding protein p300; p300; KAT3B; p300 HAT; A430090G16; A730011L11; histone acetyltransferase p300; E1A-associated protein p300; histone butyryltransferase p300; histone crotonyltransferase p300; protein 2-hydroxyisobutyryltransferase p300; protein propionyltransferase p300
Gene ID	328572
mRNA Refseq	NM_177821
Protein Refseq	NP_808489
UniProt ID	B2RWS6

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