

## Recombinant Human EP300 protein, Flag-tagged

Cat. No. EP300-28677TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EP300 fused with Flag tag was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	Human p300 and CBP (CREB binding protein) are highly related transcriptional coactivators. Both proteins have been identified through protein interaction assays. In addition to interacting with a variety of cellular factors and onco-proteins, loss of the wild type CBP alleles in isolated tumors suggests that CBP/p300 might serve as tumor suppressors. The ability of p300 to acetylate many transcription factors, including p53, E2F, TFIIE, and TFIIF etc. demonstrates a novel mechanism of targeted p300 regulation of gene expression.
<b>Form</b>	The protein is in 20mM Tris-HCl pH7.9, 100mM NaCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.
<b>Molecular Mass</b>	265.2 kDa
<b>Purity</b>	SDS-PAGE 90%
<b>Unit Definition</b>	1 unit equals 1 nanogram of purified protein. 1 unit is sufficient for a gel mobility shift assay in a 20 $\mu$ reaction; 50 units are sufficient for reconstituted transcription assay and 100 units are sufficient for a protein-protein interaction assay.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Applications** Recombinant p300 can be used for: 1) protein-protein interaction assay; 2) in vitro transcription assay; 3) in vitro acetylation assay; and 4) cell growth assay.

**Storage** Stored at -70 centigrade before use. Avoid repeated freeze thaw cycles.

## GENE INFORMATION

**Gene Name** EP300 E1A binding protein p300 [ Homo sapiens ]

**Official Symbol** EP300

**Synonyms** EP300; E1A binding protein p300; histone acetyltransferase p300; KAT3B; p300; p300 HAT; E1A-binding protein, 300kD; E1A-associated protein p300; RSTS2;

**Gene ID** 2033

**mRNA Refseq** NM\_001429

**Protein Refseq** NP\_001420

**MIM** 602700

**UniProt ID** Q09472

**Chromosome Location** 22q13.2

**Pathway** ATF-2 transcription factor network, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; C-MYB transcription

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factor network, organism-specific biosystem; Cell cycle, organism-specific biosystem;

**Function**

DNA binding; NF-kappaB binding; RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; acetyltransferase activity; activating transcription factor binding; androgen receptor binding; antigen binding; beta-catenin binding; chromatin DNA binding; chromatin binding; core promoter binding; glucocorticoid receptor binding; histone acetyltransferase activity; lysine N-acetyltransferase activity; metal ion binding; mitogen-activated protein kinase binding; peroxisome proliferator activated receptor binding; protein binding; protein complex binding; transcription coactivator activity; contributes\_to transcription coactivator activity; transcription factor binding; transferase activity, transferring acyl groups; zinc ion binding;

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