

Recombinant Human EP300 protein, Flag-tagged

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

SPECIFICATION

Product Overview	Recombinant Human EP300 fused with Flag tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	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 TFIIIF etc. demonstrates a novel mechanism of targeted p300 regulation of gene expression.
Form	The protein is in 20mM Tris-HCl pH7.9, 100mM NaCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.
Molecular Mass	265.2 kDa
Purity	SDS-PAGE 90%
Unit Definition	1 unit equals 1 nanogram of purified protein. 1 unit is sufficient for a gel mobility shift assay in a 20 µreaction; 50 units are sufficient for reconstituted transcription assay and 100 units are sufficient for a protein-protein interaction assay.

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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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