

Active Recombinant Human E1A Binding Protein P300, 302-531aa

Cat. No. EP300-1074H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
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 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 suppressor. The ability of p300 to acetylate many transcription factors, including p53, E2F, TFIIE, and TFIIF etc. demonstrated a novel mechanism of targeted p300 regulation of gene expression.
Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 20% glycerol, 100 mM KCl, 0.2 mM EDTA and 1 mM DTT.
Purity	> 95% by SDS-PAGE.
Activity	1-5 ng are sufficient for a gel mobility shift assay in a 20µl reaction, 50-100 ng are sufficient for reconstituted transcription assay and 100-200 ng are sufficient for a protein-protein interaction assay or an acetylation assay.
Application	Use only for research. Recombinant p300-Ch1 can be used for 1) protein-protein

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interaction assay, 2) in vitro transcription assay, 3) in vitro acetylation assay and 4) cell growth assay.

Usage For in vitro use only.

Storage Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name EP300 E1A binding protein p300 [Homo sapiens]

Synonyms EP300; E1A binding protein p300; p300; KAT3B; E1A-binding protein, 300kD; E1A-associated protein p300; histone acetyltransferase p300; EC 2.3.1.48; p300 HAT; OTTHUMP00000028668; P300

Gene ID 2033

mRNA Refseq NM_001429

Protein Refseq NP_001420

MIM 602700

UniProt ID Q09472

Chromosome Location 22q13.2

Pathway Adherens junction; Cell cycle; Huntington's disease; Huntington's disease; Huntington's disease; Long-term potentiation; Melanogenesis; Notch signaling pathway; Pathways in cancer; Prostate cancer; Renal cell carcinoma; TGF-beta

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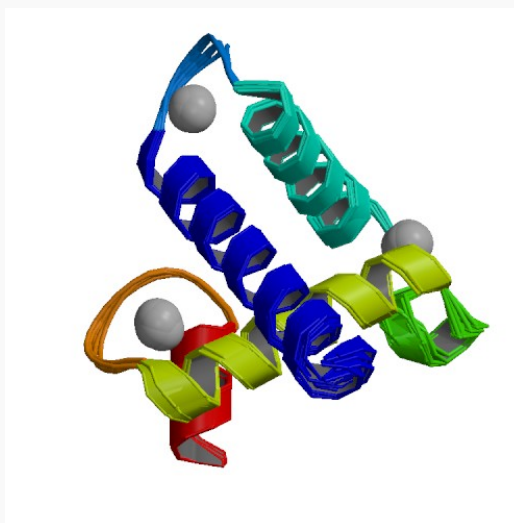
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signaling pathway; Wnt signaling pathway

Function

acetyltransferase activity; histone acetyltransferase activity; metal ion binding; peroxisome proliferator activated receptor binding; protein C-terminus binding; transcription coactivator activity; transcription factor activity; transferase activity; zinc ion binding

PDB rendering based on 1f81.



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