

Recombinant Human E1A Binding Protein P300, GST-tagged

Cat. No. EP300-1584H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human EP300 (532-1153; contains the catalytic domain) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	532-1153 a.a.
Description	EP300 encodes the adenovirus E1A-associated cellular p300 transcriptional co-activator protein that functions as a histone acetyltransferase. EP300 regulates transcription via chromatin remodeling and is important in the processes of cell proliferation and differentiation. EP300 binding is a highly accurate process and can be used for identifying enhancers and their associated activities. EP300 is also useful in the study of the role of tissue-specific enhancers in human biology and diseases on a genome wide scale. Defects in EP300 gene are a cause of Rubinstein-Taybi syndrome that play a important role in epithelial cancer and act as a classic tumor suppressor gene.
Applications	Western Blot
Molecular Weight	120 kDa
Expression System	Sf9 insect cells using baculovirus

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Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Purity	> 80 %
Concentration	0.1 ug/ul
Sequences	532-1153; contains the catalytic domain
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	ATF-2 transcription factor network; Adherens junction; Androgen Receptor Signaling Pathway; C-MYB transcription factor network; Cell cycle; Delta-Notch Signaling Pathway; Diabetes pathways; Direct p53 effectors; E2F transcription factor network; Energy Metabolism; FOXA1 transcription factor network; FOXM1 transcription factor network; Influenza A; Melanogenesis; Regulation of Wnt-mediated beta catenin signaling and target gene transcription

GENE INFORMATION

Gene Name	EP300 E1A binding protein p300 [Homo sapiens]
Official Symbol	EP300
Synonyms	EP300; E1A binding protein p300; p300; KAT3B; RSTS2; histone acetyltransferase p300; p300 HAT; E1A-binding protein, 300Kd; E1A-associated protein p300; OTTHUMP00000198754
Gene ID	2033

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mRNA Refseq	NM_001429
Protein Refseq	NP_001420
MIM	602700
UniProt ID	Q09472
Chromosome Location	22q13.2
Function	DNA binding; NF-kappaB binding; RNA polymerase II activating transcription factor binding; SMAD binding; acetyltransferase activity; activating transcription factor binding; acyltransferase activity; bHLH transcription factor binding; glucocorticoid receptor binding; histone acetyltransferase activity; metal ion binding; peroxisome proliferator activated receptor binding; transcription coactivator activity; contributes_to transcription coactivator activity; zinc ion binding
PDB rendering based on 1f81.	