

Recombinant Human E1A Binding Protein P300, GST-tagged

Cat. No. EP300-1585H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EP300 (1283-1673) was expressed by baculovirus in Sf9 cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1283-1673 a.a.
Description	EP300 encodes the adenovirus E1A-associated cellular p300 transcriptional co-activator protein. P300 is related by sequence to CBP and like CBP can stimulate transcription through activation of CREB. The EP300 activity is specifically inhibited by the adenovirus oncoprotein E1A. EP300 has also been identified as a co-activator of HIF1A (hypoxia-inducible factor 1 alpha), and thus plays a role in the stimulation of hypoxia-induced genes such as VEGF. EP300 is a components of DRAF1 (double-stranded RNA-activated factor-1), a positive regulator of interferon-stimulated gene transcription that functions as a direct response to viral infection.
Applications	Western Blot
Molecular Weight	74 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, ph 7.5, 150 mM NaCl, 10 mM

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	glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Purity	> 70 %
Concentration	0.2 ug/ul
Sequences	1283-1673
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

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
mRNA Refseq	NM_001429

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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.	