

Recombinant Human EP300

Cat. No. EP300-28678TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 302-531 of human KAT3B / p300 expressed in a bacterial system; 229 amino acids, 25kDa.
Species	Human
ProteinLength	302-531 a.a.
Description	This gene encodes the adenovirus E1A-associated cellular p300 transcriptional co-activator protein. It functions as histone acetyltransferase that regulates transcription via chromatin remodeling and is important in the processes of cell proliferation and differentiation. It mediates cAMP-gene regulation by binding specifically to phosphorylated CREB protein. This gene 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. Defects in this gene are a cause of Rubinstein-Taybi syndrome and may also play a role in epithelial cancer.
Biological activity	1 unit equals 1 nanogram of purified protein.
Form	Liquid
Purity	Immunogen affinity purified
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Contains 1 bromo domain.Contains 1 KIX domain.Contains 2 TAZ-type zinc fingers.Contains 1 ZZ-type zinc finger.
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;
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 Gene Expression, organism-specific biosystem;

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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;

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