

# Recombinant Human EP300, FLAG-tagged

**Cat. No.** EP300-28680TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant fragment, corresponding to C terminal amino acids 1135-2414 of Human KAT3B / p300 with Flag tag expressed in a baculovirus system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 1135-2414 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Conjugation</b>      | FLAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage buffer</b>   | Preservative: None<br>Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                            |
| <b>Sequence Similarities</b> | Contains 1 bromo domain.Contains 1 KIX domain.Contains 2 TAZ-type zinc fingers.Contains 1 ZZ-type zinc finger.                                                                                                                                                                                       |
| <b>GENE INFORMATION</b>      |                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>             | EP300 E1A binding protein p300 [ Homo sapiens ]                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>       | EP300                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>              | EP300; E1A binding protein p300; histone acetyltransferase p300; KAT3B; p300;                                                                                                                                                                                                                        |
| <b>Gene ID</b>               | 2033                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>           | NM_001429                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>        | NP_001420                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>                   | 602700                                                                                                                                                                                                                                                                                               |
| <b>Uniprot ID</b>            | Q09472                                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b>   | 22q13.2                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>               | 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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