

Product datasheet for **AP06548PU-M**

EP300 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 50-100 of Human p300.
Specificity:	This antibody detects endogenous levels of p300 protein. (region surrounding Glu83)
Formulation:	PBS, pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% by SDS-PAGE). Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~265.0 kDa
Gene Name:	E1A binding protein p300
Database Link:	<u>Entrez Gene 328572 Mouse</u> <u>Entrez Gene 170915 Rat</u> <u>Entrez Gene 2033 Human</u> <u>Q09472</u>



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Background:

Cyclic AMP-regulated gene expression frequently involves a DNA element designated the cAMP-regulated enhancer (CRE). Many transcription factors, including the protein CREB, which is activated as a result of phosphorylation by protein kinase A, bind to this element. It has been shown that protein kinase A-mediated CREB phosphorylation results in its binding to a 265 kDa nuclear protein designated CBP (for CREB-binding protein). These findings suggest that CBP has many of the properties expected of a CREB co-activator. Another high molecular weight transcriptional adapter protein, designated p300, is characterized by three cysteine- and histidine-rich regions, of which the most carboxy terminal region specifically binds the adenovirus E1A protein. p300 molecules lacking an intact E1A binding site bypass E1A repression even in the presence of high concentrations of E1A. Sequence analysis of CBP and p300 has revealed substantial homology, arguing that these proteins are members of a conserved family of co-activators.

Synonyms:

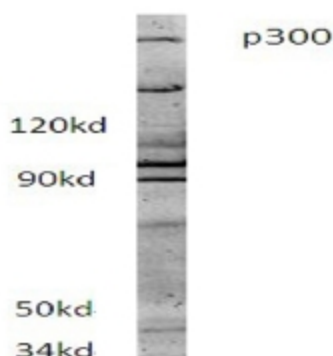
p300 HAT, KAT3B, Histone acetyltransferase p300

Protein Families:

Druggable Genome, Transcription Factors

Protein Pathways:

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

Product images:


Western blot analysis of p300 antibody in extracts from Hela cells.