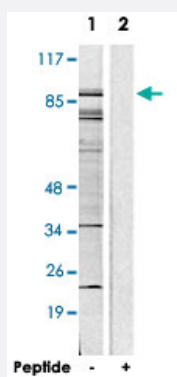


CREBBP/EP300 polyclonal antibody

Catalog # PAB17329 Size 100 ug

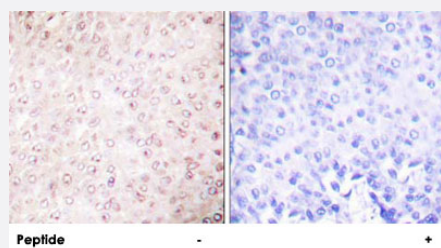
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from COLO 205 cells, using CREBBP/EP300 polyclonal antibody (Cat # PAB17329).

Peptide "+" means "with peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREBBP/EP300 polyclonal antibody (Cat # PAB17329).

Peptide "+" means "with peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CREBBP/EP300.
Immunogen	A synthetic peptide corresponding to human CREBBP/EP300.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of total CREBBP/EP300 protein.
Form	Liquid

Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (150mM NaCl, 0.02% sodium azide, 50% glycerol)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from COLO 205 cells, using CREBBP/EP300 polyclonal antibody (Cat # PAB17329).
Peptide "+" means "with peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREBBP/EP300 polyclonal antibody (Cat # PAB17329).
Peptide "+" means "with peptide blocking".

Gene Info — CREBBP

Entrez GeneID	1387
Protein Accession#	Q92793 (Gene ID : 1387);Q09472 (Gene ID : 2033)
Gene Name	CREBBP
Gene Alias	CBP, KAT3A, RSTS
Gene Description	CREB binding protein
Omim ID	180849 600140
Gene Ontology	Hyperlink

Gene Summary

This gene is ubiquitously expressed and is involved in the transcriptional coactivation of many different transcription factors. First isolated as a nuclear protein that binds to cAMP-response element binding protein (CREB), this gene is now known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. The protein encoded by this gene has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. This protein acetylates both histone and non-histone proteins. This protein shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. Mutations in this gene cause Rubinstein-Taybi syndrome (RTS). Chromosomal translocations involving this gene have been associated with acute myeloid leukemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations

Rubinstein-Taybi syndrome

Gene Info — EP300

Entrez GeneID

[2033](#)

Protein Accession#

[Q92793 \(Gene ID : 1387\);Q09472 \(Gene ID : 2033\)](#)

Gene Name

EP300

Gene Alias

KAT3B, p300

Gene Description

E1A binding protein p300

Omim ID

[114500 180849 602700](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

E1A-associated protein p300|E1A-binding protein, 300kD|OTTHUMP00000028668|histone acetyltransferase p300

Publication Reference

- [Loss of CBP acetyltransferase activity by PHD finger mutations in Rubinstein-Taybi syndrome.](#)

Kalkhoven E, Roelfsema JH, Teunissen H, den Boer A, Ariyurek Y, Zantema A, Breuning MH, Hennekam RC, Peters DJ.
Human Molecular Genetics 2003 Feb; 12(4):441.

Application: WB-Ce, Human, Lymphoblastoid cells

- [CBP and p300: versatile coregulators with important roles in hematopoietic gene expression.](#)

Blobel GA.

Journal of Leukocyte Biology 2002 Apr; 71(4):545.

- [The HOX homeodomain proteins block CBP histone acetyltransferase activity.](#)

Shen WF, Krishnan K, Lawrence HJ, Largman C.

Mol Cell Biol 2001 Nov; 21(21):7509.

Pathway

- [Adherens junction](#)
- [Adherens junction](#)
- [Cell cycle](#)
- [Cell cycle](#)
- [Jak-STAT signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Long-term potentiation](#)
- [Long-term potentiation](#)
- [Melanogenesis](#)
- [Melanogenesis](#)
- [Notch signaling pathway](#)
- [Notch signaling pathway](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

- [Prostate cancer](#)
- [Renal cell carcinoma](#)
- [Renal cell carcinoma](#)
- [TGF-beta signaling pathway](#)
- [TGF-beta signaling pathway](#)
- [Wnt signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Asthma](#)
- [Breast cancer](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Femur Head Necrosis](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Huntington disease](#)

- [Infant](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Rubinstein-Taybi Syndrome](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Spinal Dysraphism](#)
- [Spinal Dysraphism](#)
- [Thyroid Neoplasms](#)
- [Weight Gain](#)