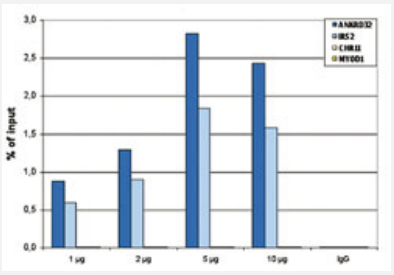
EP300 monoclonal antibody

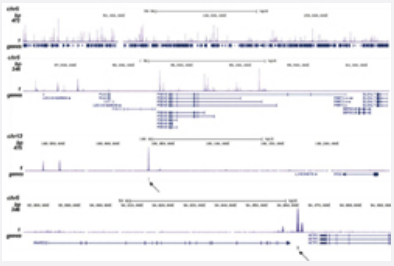
Catalog # MAB15840 Size 50 ug

Applications



ChIP

ChIP was performed using HeLa cells. A titration of the antibody consisting of 1, 2, 5 and 10 ug per ChIP experiment was analysed. IgG (2 ug/IP) was used as negative IP control. Quantitative PCR was performed with primers for two genomic regions near the ANKRD32 and IRS2 genes, used as positive controls, and for the coding region of the inactive MYOD1 gene and an intergeic region on chromosome 11, used as negative controls. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



ChIP-Seq

ChIP was performed with 5 ug of antibody. The figure shows the peak distribution along the complete sequence and a 3 mb region of chromosome 5 and in two regions surrounding the IRS2 and ANKRD32 positive control genes. The position of the amplicon used for ChIP-qPCR is indicated by an arrow.

Specification

Product Description	Mouse monoclonal antibody raised against EP300.
Immunogen	Human p300 by DNA immunization in which the C-terminus of the protein was cloned and expressed .
Host	Mouse
Reactivity	Human
Form	Liquid

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Purification	Protein A purification
Isotype	IgG3
Recommend Usage	ChIP (5 ug/CHIP) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide, 0.05% proclin 300).
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- ChIP

  ChIP was performed using HeLa cells. A titration of the antibody consisting of 1, 2, 5 and 10 ug per ChIP experiment was analysed. IgG (2 ug/IP) was used as negative IP control. Quantitative PCR was performed with primers for two genomic regions near the ANKRD32 and IRS2 genes, used as positive controls, and for the coding region of the inactive MYOD1 gene and an intergeic region on chromosome 11, used as negative controls. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).

- ChIP-Seq

  ChIP was performed with 5 ug of antibody. The figure shows the peak distribution along the complete sequence and a 3 mb region of chromosome 5 and in two regions surrounding the IRS2 and ANKRD32 positive control genes. The position of the amplicon used for ChIP-qPCR is indicated by an arrow.

Gene Info — EP300

Entrez GeneID	2033
Protein Accession#	Q09472
Gene Name	EP300
Gene Alias	KAT3B, p300
Gene Description	E1A binding protein p300
Omim ID	114500 180849 602700
Gene Ontology	Hyperlink

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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

Pathway

- Adherens junction
- Cell cycle
- 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

Disease

- Breast cancer
- Breast Neoplasms
- Cardiovascular Diseases
- Diabetes Mellitus
- Ductus Arteriosus

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Edema
- Genetic Predisposition to Disease
- Infant
- Kidney Failure
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Spinal Dysraphism
- Thyroid Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.