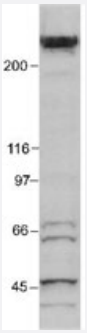
EP300 monoclonal antibody, clone RW105

Catalog # MAB2385 Size 100 ug

Applications



Western Blot (Cell lysate)

EP300 detected in a HeLa nuclear extract using EP300 monoclonal antibody, clone RW105 (Cat # MAB2385) (1 : 250). ECL : 20 minute exposure.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant EP300.
Immunogen	Recombinant protein corresponding to amino acids 1572-2371 of human EP300.
Host	Mouse
Reactivity	Human, Mouse, Primates, Rat
Specificity	This antibody is specific to p300 protein. This antibody recognizes residues 1921-2023.
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Recommend Usage	Western Blot (1:250-1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence
- Immunoprecipitation
- Western Blot (Cell lysate)

  EP300 detected in a HeLa nuclear extract using EP300 monoclonal antibody, clone RW105 (Cat # MAB2385) (1 : 250). ECL : 20 minute exposure.

Gene Info — EP300

Entrez GeneID	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 prot ein. 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 r egulation by binding specifically to phosphorylated CREB protein. This gene has also been identif ied as a co-activator of HIF1A (hypoxia-inducible factor 1 alpha), and thus plays a role in the stimu lation of hypoxia-induced genes such as VEGF. Defects in this gene are a cause of Rubinstein-T aybi 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 acet yltransferase p300

Publication Reference

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- Interaction and functional collaboration of p300/CBP and bHLH proteins in muscle and B-cell differentiation.

  Eckner R, Yao TP, Oldread E, Livingston DM.

  Genes & Development 1996 Oct; 10(19):2478.

- Association of p300 and CBP with simian virus 40 large T antigen.

  Eckner R, Ludlow JW, Lill NL, Oldread E, Arany Z, Modjtahedi N, DeCaprio JA, Livingston DM, Morgan JA.

  Molecular and Cellular Biology 1996 Jul; 16(7):3454.

  Application: IP, Mouse, MEF cells

- Molecular cloning and functional analysis of the adenovirus E1A-associated 300-kD protein (p300) reveals a protein with properties of a transcriptional adaptor.

  Eckner R, Ewen ME, Newsome D, Gerdes M, DeCaprio JA, Lawrence JB, Livingston DM.

  Genes & Development 1994 Apr; 8(8):869.

  Application: IP, Human, U-2 OS cells

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

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- Breast Neoplasms
- Cardiovascular Diseases
- Diabetes Mellitus
- Ductus Arteriosus
- Edema
- Genetic Predisposition to Disease
- Infant
- Kidney Failure
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Spinal Dysraphism
- Thyroid Neoplasms

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