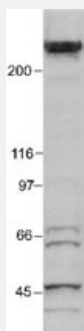


EP300 monoclonal antibody, clone RW105

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.

Note

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

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.

- Immunofluorescence

- Immunoprecipitation

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 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

- [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](#)

- [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](#)