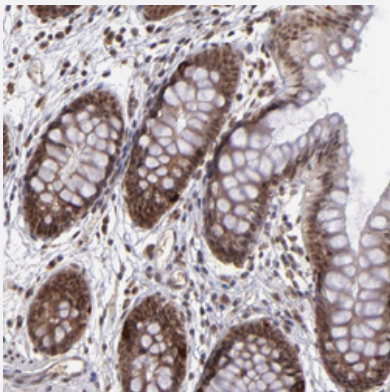


EP300 polyclonal antibody

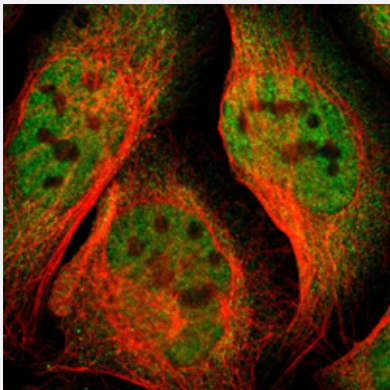
Catalog # PAB28738 Size 100 uL

Applications



Immunohistochemistry

Immunohistochemical staining of human colon with EP300 polyclonal antibody (Cat # PAB28738) shows strong nuclear and cytoplasmic positivity in glandular cells.



Immunofluorescence

Immunofluorescent staining of human cell line U-2 OS with EP300 polyclonal antibody (Cat # PAB28738) at 1-4 ug/mL shows positivity in nucleus but not nucleoli and cytoplasm.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant EP300.
Immunogen	Recombinant protein corresponding to amino acids of human EP300.
Sequence	FLPQTQFPSQGMNVTNIPLAPSSGQAPVSQAQMSSSSCPVNSPIMPPGSQGSHIHCPQLPQPAL HQNPSVPVPSRTPTPHHTPPSIGAQQPPATTIPAPVPTPPAMPPGPQSQUALHPPPRQTPTPPTTQ LPQQ
Host	Rabbit

Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:200) Immunofluorescence (1-4 ug/ml) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage 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

- Immunohistochemistry

Immunohistochemical staining of human colon with EP300 polyclonal antibody (Cat # PAB28738) shows strong nuclear and cytoplasmic positivity in glandular cells.

- Immunofluorescence

Immunofluorescent staining of human cell line U-2 OS with EP300 polyclonal antibody (Cat # PAB28738) at 1-4 ug/mL shows positivity in nucleus but not nucleoli and cytoplasm.

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

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](#)