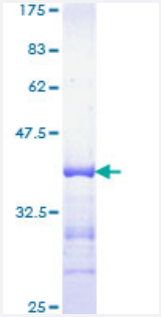
EP300 (Human) Recombinant Protein (Q01)

Catalog # H00002033-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human EP300 partial ORF (NP_001420, 731 a.a. - 830 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PPLQHHGQLAQPGALNPPMGYGPRMQQPSNQGQFLPQTQFPSQGMNVTNIPLAPSSGQAPVSQAQMSSSSCPVNSPIMPPGSQGSHIHCPQLPQPALHQN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — EP300

Entrez GeneID	2033
GeneBank Accession#	NM_001429
Protein Accession#	NP_001420
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