Recombinant Dog Ep300 Protein, His tagged

Cat. No. EP300-01D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog Ep300 Protein with His tag was expressed in HEK293.
Species	Dog
Source	HEK293
Description	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.
Molecular Mass	The protein has a calculated MW of 44 kDa.
AA Sequence	HHHHHHHHKFSAKRLPSTRLGTFLENRVNDFLRRQNHPESGEVTVRVVHASDKTVE VKPGMKARFVDSGEMAESFPYRTKALFAFEEIDGVDLCFFGMHVQEYGSDCPPPN QRRVYISYLDSVHFFRPKCLRTAVYHEILIGYLEYVKKLGYTTGHIWACPPSEGDDYIF HCHPPDQKIPKPKRLQEWYKKMLDKAVSERIVHDYKDIFKQATEDRLTSAKELPYFE GDFWPNVLEESIKELEQEEEERKREENTSNESTDVTKGDSKNAKKKNNKKTSKNKS SLSRGNKKKPGMPNVSNDLSQKLYATMEKHKEVFFVIRLIAGPAANSLPPIVDPDPLI PCDLMDGRDAFLTLARDKHLEFSSLRRAQWSTMCMLVELHTQSQ

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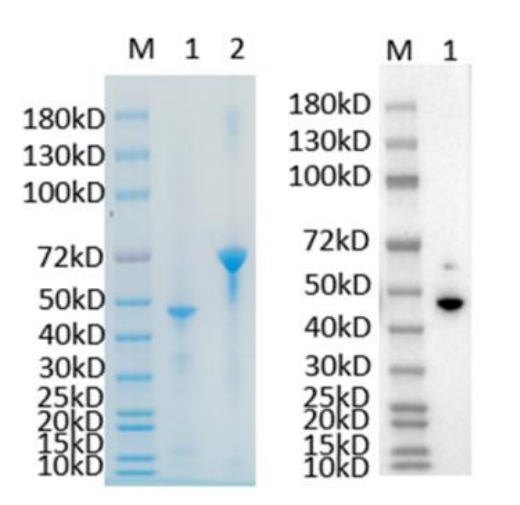
Endotoxin	< 1 EU/μg by LAL
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.25 mg/mL by BCA
Storage Buffer	PBS, pH 7.4, 1% SKL

GENE INFORMATION

Gene Name	EP300 E1A binding protein p300 [Canis lupus familiaris]
Official Symbol	EP300
Synonyms	EP300; E1A binding protein p300; histone acetyltransferase p300;
Gene ID	100684945
mRNA Refseq	XM_038679753
Protein Refseq	XP_038535681
UniProt ID	A0A8C0P7Y1

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Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profile of purified EP300.



1. EP300-01D
2. BSA

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