

KAT2B/PCAF recombinant protein

Recombinant KAT2B/PCAF protein

CATALOG # AAA60152	HOST Baculovirus
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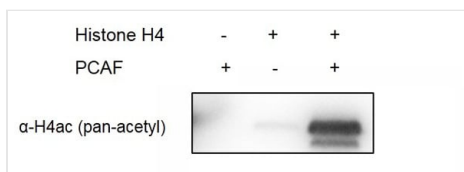
PRODUCT SYNONYMS

KAT2B/PCAF; Recombinant KAT2B/PCAF protein; K (lysine) acetyltransferase 2B (KAT2B); P300/CBP-associated factor; P/CAF; KAT2B/PCAF recombinant protein

PRODUCT SPECIFICATIONS

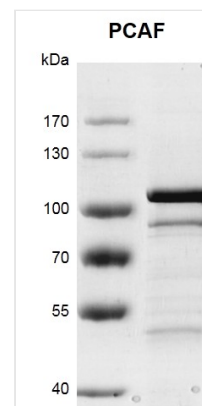
Host	Baculovirus
Form/Format	Recombinant PCAF protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	This protein is suitable for use in binding assays, inhibitor screening, and selectivity profiling. Assay Conditions: 0.5ug Histone H4 was incubated with 0ug (-), 0.5ug (+) PCAF in a 20ul reaction system containing 50mM Tris-HCl pH 8.0, 0.1mM EDTA, 50 ng/ul BSA, 1mM TCEP and 20uM Acetyl-CoA for 2 hours at room temperature. Half of each reaction was run on a 13% SDS-PAGE gel, and products were detected by Western blot. H4ac (pan-acetyl) antibody was used to recognize acetylated histone H4.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



WB (Western Blot)

Western blot for recombinant PCAF activity 0.5 ug Histone H4 was incubated with 0 ug (-), 0.5 ug (+) PCAF in a 20 ul reaction system for 2 hours at room temperature. Half of each reaction was run on a 13% SDS-PAGE gel, and products were detected by Western blot. H4ac (pan-acetyl) antibody was used to recognize acetylated histone H4.



SDS-PAGE

Recombinant PCAF protein gel 7.5% SDS-PAGE Coomassie staining MW: 94.3 kDa Purity: >80%

ADDITIONAL INFORMATION

Related Product Information for KAT2B/PCAF recombinant protein	Short Description: Recombinant human PCAF was expressed in a baculovirus expression system as the full-length protein (accession number NP_003875.3) with an N-terminal DYKDDDDK-Tag. The molecular weight of the protein is 94.3 kDa. It is suitable for use in binding assays, inhibitor screening, and selectivity profiling. Background: p300/CBP-associated factor (PCAF), also known as K (lysine) acetyltransferase 2B (KAT2B), is a transcriptional coactivator associated with p53 that contains acetyltransferase and E3 ubiquitin ligase domains as well as a bromodomain for interaction with other proteins. The bromodomain functions as a 'reader' of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. PCAF competes with E1A for binding to p300/CBP, which associate with various sequence-specific factors involved in cell growth and/or differentiation, including c-Jun and the adenoviral oncoprotein E1A. PCAF exerts histone acetyltransferase activity in association with core histones (H3 and H4) and with nucleosome core particles, and functions to promote transcriptional activation. PCAF has also been shown to inhibit cell cycle progression and to counteract the mitogenic activity of the adenoviral oncoprotein E1A. In case of HIV-1 infection, PCAF is recruited by the viral protein TAT to regulate TAT's transactivating activity and may help induce chromatin remodeling of proviral genes.
Product Categories/Family for KAT2B/PCAF recombinant protein	Recombinant Proteins; Bromodomain

NCBI AND UNIPROT INFORMATION

NCBI GI #	40805843
NCBI GeneID	8850
NCBI Accession #	NP_003875.3
NCBI GenBank Nucleotide #	NM_003884.4
UniProt Accession #	Q92831; Q6NSK1
Molecular Weight	93,013 Da
NCBI Official Full Name	histone acetyltransferase KAT2B
NCBI Official Synonym Full Names	K(lysine) acetyltransferase 2B
NCBI Official Symbol	KAT2B
NCBI Official Synonym Symbols	P; CAF; PCAF; P/CAF
NCBI Protein Information	histone acetyltransferase KAT2B; histone acetylase PCAF; CREBBP-associated factor; p300/CBP-associated factor; lysine acetyltransferase 2B; histone acetyltransferase PCAF
UniProt Protein Name	Histone acetyltransferase KAT2B
UniProt Gene Name	KAT2B
UniProt Synonym Gene Names	PCAF; Histone acetylase PCAF; P/CAF
UniProt Entry Name	KAT2B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.