

Active Recombinant Human K (lysine) Acetyltransferase 2B

Cat. No. KAT2B-1081H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Sf9 Cells

Description

CBP and p300 are large nuclear proteins that bind to many sequence-specific factors involved in cell growth and/or differentiation, including c-jun and the adenoviral oncoprotein E1A. The protein encoded by this gene associates with p300/CBP. It has in vitro and in vivo binding activity with CBP and p300, and competes with E1A for binding sites in p300/CBP. PCAF belongs to the GCN5/PCAF family of nuclear HATs. The proteins consist of N-terminal and C-terminal domains separated by a deep hydrophobic cleft. The C-terminus contains the HAT domain and a bromodomain, while the Nterminus contains a PCAF-specific domain. Numerous studies indicate that these HATs function as histone-acetylating transcriptional co-activators. Besides histones, PCAF also acetylates non-histone proteins. It has histone acetyl transferase activity with core histones and nucleosome core particles, indicating that this protein plays a direct role in transcriptional regulation.

Form

Liquid. Supplied in 20mM Tris-HCl pH8.0, 20% glycerol, 100mM KCl, 0.2mM EDTA and 1mM DTT.

Activity

1-5ng are sufficient for a gel mobility shift assay in a 20µl reaction, 50-100ng are sufficient for reconstituted transcription assay and 100-200ng are sufficient for a protein-protein interaction assay or an acetylation assay.

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Application	Use only for Research. Recombinant PCAF can be used: (1) for protein-protein reaction assay. (2) For in vitro transcription assay. (3) For in vitro acetylation assay. (4) For cell growth assay.
Purity	>95% by SDS-PAGE.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	KAT2B K(lysine) acetyltransferase 2B [Homo sapiens]
Synonyms	KAT2B; K(lysine) acetyltransferase 2B; P; CAF; PCAF; P/CAF; CREBBP-associated factor; p300/CBP-associated factor; Histone acetyltransferase KAT2B; EC 2.3.1.48; Lysine acetyltransferase 2B; Histone acetylase PCAF; P300/CBP-associated factor; P/CAF; GCN5; GCN5L
Gene ID	8850
mRNA Refseq	NM_003884
Protein Refseq	NP_003875
MIM	602303
UniProt ID	Q92831
Chromosome Location	3p24

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Pathway Notch signaling pathway; Gene Expression; Transcription

Function histone acetyltransferase activity; histone deacetylase binding; transcription coactivator activity; transferase activity

PDB rendering based on 1cm0.



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