

## Active Recombinant Human K (lysine) Acetyltransferase 2B

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

### SPECIFICATION

**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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<b>Application</b>	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.
<b>Purity</b>	>95% by SDS-PAGE.
<b>Usage</b>	For in vitro use only.
<b>Storage</b>	Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">KAT2B K(lysine) acetyltransferase 2B [ Homo sapiens ]</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">8850</a>
<b>mRNA Refseq</b>	<a href="#">NM_003884</a>
<b>Protein Refseq</b>	<a href="#">NP_003875</a>
<b>MIM</b>	<a href="#">602303</a>
<b>UniProt ID</b>	<a href="#">Q92831</a>
<b>Chromosome Location</b>	3p24

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<b>Pathway</b>	Notch signaling pathway; Gene Expression; Transcription
<b>Function</b>	histone acetyltransferase activity; histone deacetylase binding; transcription coactivator activity; transferase activity

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