

## Recombinant Human KAT2B , GST-tagged

Cat. No. KAT2B-6953H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human KAT2B (PCAF) (431-end; contains the catalytic domain) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	431 aa-end; contains the catalytic domain
<b>Description</b>	KAT2B (also known as PCAF) is a transcription cofactor with a histone acetyltransferase (HAT) activity. KAT2B protein associates with p300/CBP which is a large nuclear protein that bind to many sequence-specific factors that are involved in cell growth and/or differentiation, including c-jun and the adenoviral oncoprotein E1A. KAT2B has histone acetyl transferase activity with core histones and nucleosome core particles indicating that KAT2B plays a direct role in transcriptional regulation. PCAF functions as a coordinating factor in the regulation of HIF1A-mediated apoptosis and p53-dependent cell cycle progression.
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~70 kDa
<b>Purity</b>	>95%

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<b>Applications</b>	Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	KAT2B K(lysine) acetyltransferase 2B [ Homo sapiens ]
<b>Official Symbol</b>	KAT2B
<b>Synonyms</b>	KAT2B; K(lysine) acetyltransferase 2B; p300/CBP associated factor , PCAF; histone acetyltransferase KAT2B; GCN5; GCN5L; P/CAF; histone acetylase PCAF; CREBBP-associated factor; p300/CBP-associated factor; lysine acetyltransferase 2B; histone acetyltransferase PCAF; P; CAF; PCAF;
<b>Gene ID</b>	8850
<b>mRNA Refseq</b>	NM_003884
<b>Protein Refseq</b>	NP_003875
<b>MIM</b>	602303
<b>UniProt ID</b>	Q92831
<b>Chromosome Location</b>	3p24

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**Pathway**

Androgen Receptor Signaling Pathway, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; E2F transcription factor network, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; HTLV-I infection, organism-specific biosystem;

**Function**

acetyltransferase activity; cyclin-dependent protein kinase inhibitor activity; histone acetyltransferase activity; histone deacetylase binding; lysine N-acetyltransferase activity; lysine N-acetyltransferase activity; protein binding; protein kinase binding; transcription coactivator activity; transcription cofactor activity; transcription factor binding; transferase activity, transferring acyl groups;

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