Recombinant Human KAT2B, GST-tagged

Cat. No. KAT2B-163H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCAF bromodomain (714-831 aa) fused to a GST tag at the N-terminus
Species	Human
Source	E.coli
ProteinLength	714-831 a.a.
Description	The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. A bromodomain is a protein domain that recognizes acetylated lysine residues such as those on the N-terminal tails of histones. This recognition is often a prerequisite for protein-histone association and chromatin remodeling. These domains function in the linking of protein complexes to acetylated nucleosomes, thereby controlling chromatin structure and gene expression. Thus, bromodomains serve as “readers” of histone acetylation marks regulating the transcription of target promoters. p300/CBP-associated factor (PCAF) is a transcriptional coactivator that works both as a histone lysine acetyltransferase, through its HAT domain, and as an acetyl-lysine reader through its conserved bromodomain located directly C-terminal to the HAT domain. The PCAF bromodomain binds acetylated histone H3 and H4 as well as non-histone targets. Bromodomain binding is dictated by the position of the acetylated lysine as well as interactions with specific residues flanking the acetyl-lysine. PCAF also specifically binds the HIV viral protein Tat on acetylated K50 to regulate its transactivating activity

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	and help induce chromatin remodeling of proviral genes, thereby promoting transcription of viral proteins.
Form	Liquid. 50 mM Tris, pH 8.0, containing 150 mM sodium chloride and 20% glycerol.
Molecular Mass	40.9 kDa (714-831 aa + NT GST Tag)
Purity	≥95%
Storage	Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for 1 year.

GENE INFORMATION

Gene Name	KAT2B K(lysine) acetyltransferase 2B [Homo sapiens]
Official Symbol	KAT2B
Synonyms	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;
Gene ID	8850
mRNA Refseq	NM_003884
Protein Refseq	NP_003875
MIM	602303
UniProt ID	Q92831

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Chromosome Location	3p24
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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