

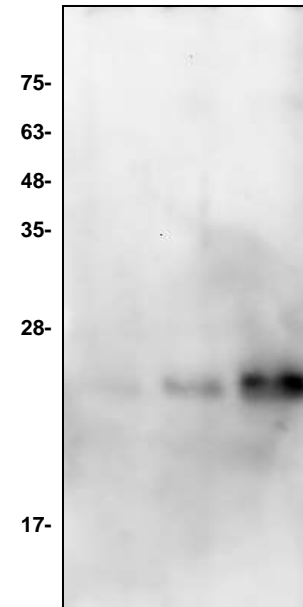
## PCAF Antibody

<b>CATALOG NO:</b>	6675-30T 30 µg (Trial size) 6675-100 100 µg
<b>ALTERNATE NAMES:</b>	KAT2B; PCAF; Histone acetyltransferase KAT2B; Histone acetyltransferase PCAF; Lysine acetyltransferase 2B; P300/CBP-associated factor.
<b>CONCENTRATION:</b>	0.5 mg/ml
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Recombinant human PCAF protein (Cat # 1137)
<b>INTERNAL ID:</b>	BV-N65
<b>PURIFICATION:</b>	Affinity purified rabbit IgG
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	0.5 mg/ml of antibody in PBS pH 7.2, 0.01 % BSA, 0.01 % thimerosal and 50 % glycerol
<b>SPECIES REACTIVITY:</b>	Human
<b>STORAGE CONDITIONS:</b>	Store at -20°C. Avoid repeated freeze/thaw cycles.

**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 and help induce chromatin remodeling of proviral genes, thereby promoting transcription of viral proteins.

**APPLICATION:** Western blot: 1-4 µg

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.



Western blot of PCAF antibody:

Lane 1: rhPCAF 10 ng  
Lane 2: rhPCAF 50 ng  
Lane 3: rhPCAF 100 ng

### RELATED PRODUCTS:

- PCAF bromodomain (714-831 aa), human recombinant (**Cat. No. 7657-20, 100**)
- PCAF bromodomain (352-658 aa), human recombinant (**Cat. No. 1137-100**)
- PCAF, mouse recombinant (**Cat. No. 7556-10**)
- PCAF Antibody (NT) (**Cat. No. 6762-100**)
- PCAF Inhibitor Screening Kit (Fluorometric) (**Cat. No. K345-100**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**