

Datasheet for 009-001-S81S**PCAF protein-GST fusion****Overview**

Description:	PCAF recombinant protein-GST fusion protein - 009-001-S81S
Item No.:	009-001-S81S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	PCAF is a protein that shows homology to the yeast GCN5 and associates with p300/CBP. PCAF has in vitro and in vivo binding activity with CBP and p300, and competes with E1A for binding sites in p300/CBP (1). PCAF encodes a predicted 832-amino acid protein that showed by RNA blotting to be expressed in all tissues, most strongly in heart and skeletal muscle. PCAF has histone acetyl transferase activity with core histones and nucleosome core particles, indicating that this protein plays a direct role in transcriptional regulation. PCAF is required for MyoD activity and muscle differentiation. PCAF directly acetylated MyoD which then displays an increased affinity for its DNA target (2). PCAF Protein is ideal for investigators involved in Signaling Proteins, Acetyl/Methyltransferase Proteins, Cancer, Cell Cycle, and NfκB Pathway research.
Synonyms:	CAF, GCN5, GCN5L, P/CAF, GCN5L1, KAT2A, K, lysine acetyltransferase 2B, Histone acetyltransferase KAT2B
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	KAT2B
Purity/Specificity:	Recombinant human PCAF (431-end) was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry.
Relevant Links:	• NCBI - NM_003884

Application Details

Application Note:	PCAF Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. PCAF Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~69kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

