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Datasheet for 009-001-S82S

PCNA protein-HIS Epitope

Overview

Description:	PCNA recombinant protein-HIS Epitope - 009-001-S82S
Item No.:	009-001-S82S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	PCNA is a nuclear protein whose appearance correlates with the proliferative state of the cells and is a cofactor of DNA polymerase delta. PCNA is a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, PCNA is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Immunofluorescence studies have shown that p300 may play a role in DNA repair synthesis through its interaction with PCNA. In vitro and in vivo p300 forms a complex with PCNA that does not depend on the S phase of the cell cycle and stimulates DNA synthesis in vitro (1). PCNA interacts with the Williams syndrome transcription factor (WSTF) allowing it to target to DNA replication foci, that then allows recruitment of SNF2H (2). PCNA Protein is ideal for investigators involved in Signaling Proteins, Acetyl/Methyltransferase Proteins, Cancer, Cell Cycle, ERK/MAPK Pathway, and WNT Signaling research.
Synonyms:	MGC8367, Proliferating cell nuclear antigen, PCNA, Cyclin
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	PCNA
Purity/Specificity:	Recombinant full-length human PCNA was expressed by E. coli cells using an N-Terminal his epitope. The purity was determined to be >90% by densitometry.
Relevant Links:	• NCBI - NM_002592

Application Details

Application Note:	PCNA Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. PCNA Protein is suitable for use in Western Blot. Expect a band approximately ~30kDa 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.

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