

Product Datasheet

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Anti-PCNA [Clone PC10] — Purified (PhenoCycler-Fusion (CODEX)® Ready)

Monoclonal Antibody

Product Information

Product No.:	P500
Clone:	PC10
RRID:	AB_2894158
Isotype:	Mouse IgG2a k
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone PC10 recognizes an epitope on mouse PCNA.

Antigen Distribution:

PCNA is a ubiquitous nuclear protein present in all cell cycle stages, with the highest expression in the early S phase. Anti-PCNA staining is almost entirely confined to the nucleus and may show a diffuse or granular pattern or a mixture of both.

Background:

PCNA antibody, clone PC10, recognizes proliferating cell nuclear antigen (PCNA), also known as cyclin, a 36 kDa nuclear protein belonging to the DNA sliding clamp family. PCNA is a ring-shaped homotrimer that encircles and slides along DNA^{1,2}. PCNA is an auxiliary protein of DNA polymerase δ and ϵ and tethers the polymerase catalytic unit to the DNA template for efficient DNA synthesis³⁻⁶. PCNA also contributes to chromatin remodeling, DNA repair, sister chromatid cohesion, and cell cycle control⁷. Expression levels of PCNA are associated with proliferation and transformation, and PCNA is commonly used as a marker for proliferating cells^{8,9}. Antibodies to PCNA are detected in sera from patients with systemic lupus erythematosus (SLE)¹⁰. In addition, PCNA is a reliable diagnostic and prognostic biomarker for cancer, as tumor cells express high levels of PCNA¹¹.

Known Reactivity Species:

Rat

Format:

Purified (PhenoCycler® Ready)

Immunogen:

Rat PCNA made in the protein A vector pR1T2T

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Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4.

Storage and Stability

This antibody is stable for at least one week when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at -20°C **in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.**

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

CODEX® This PCNA (Clone PC10) antibody is formulated to simplify the antibody preparation needed when performing a CODEX® barcode conjugate. The suggested concentration is 0.5 mg/ml.

Country of Origin

USA

References

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