

DATASHEET

Version: 2016-08-17

PCNA Antibody, mAb, Mouse**Cat. No.:** A01055-40**Size:** 40 µg**Synonyms:** Mouse Anti-PCNA mAb; Proliferating Cell Nuclear Antigen**Description:**

The proliferating cell nuclear antigen (PCNA) is a 36kD nuclear protein associated with the cell cycle. PCNA was initially identified as a nuclear antigen in proliferating cells and was subsequently described as a subunit for DNA polymerase δ . PCNA protein levels peak during the S-phase of the cell cycle, at which time it forms a complex with the p21 inhibitor. PCNA is almost undetectable in other phases of the cycle. Because of its unique expression, PCNA has been extensively used in studies associating the prognosis of tumor progression and neoplastic proliferation.

GenScript **Mouse Anti-PCNA Monoclonal Antibody** is developed in mouse using recombinant human PCNA protein. GenScript Mouse Anti-PCNA is highly purified from mouse ascites by protein A chromatography and is supplied as 40 µg aliquot.

Immunogen: Recombinant PCNA protein**Host:** Mouse**Antigen Synonyms:** Human**Conjugation:** Unconjugated**Fusion Partner:**

SP2/0-Ag14

Predicated Band Size:

36 kD

Formulation:**Example**

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 1% BSA and 0.02% sodium azide

Clone: 4C10G3**Ig Subclass:** Mouse IgG1, k

Specificity: GenScript Mouse Anti-PCNA Monoclonal Antibody can detect endogenous level of human PCNA. It has not yet been tested with other species.

Purification: Protein A affinity column**Applications:**

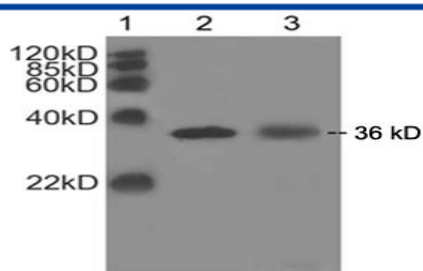
Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western blot: 1.0-2.0 µg/ml**Other applications:** user-optimized**Reconstitution:**

Reconstitute the lyophilized Mouse Anti-PCNA Monoclonal Antibody (40 µg) with 80 µl deionized water to the final concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.



Western blot analysis:

1 Marker

EasyWestern Protein Standard (GenScript, MM0908)

2 Hela cell lysate

1 μ g/ml Mouse Anti-PCNA Monoclonal Antibody (GenScript, A01055)

3 NIH/3T3 cell lysate

1 μ g/ml Mouse Anti-PCNA Monoclonal Antibody (GenScript, A01055)

Secondary antibody: Goat Anti-Mouse IgG (H&L) [HRP]

Polyclonal Antibody (GenScript, A00160, 1:10,000)