



**Category:**  
Monoclonal Antibodies

**Cat. #**  
1107NF- 065D

**Product Name:**  
Proliferating Cell Nuclear Antigen (PCNA) – Prediluted

**Description:**

The 36 kD proliferating cell nuclear antigen was originally defined as an intranuclear polypeptide whose synthesis reaches its maximum during the S phase of the cell cycle. This antibody reacts with proliferating cells in a wide range of normal tissues, but the proportion of proliferating cells with PCNA nuclear immunoreactivity is currently unclear.

**Immunogen:**

Rat PCNA made in the protein A expression vector PR1T2T.

**Cellular Localization:**

Nuclear

**Application:**

Immunohistochemistry (Paraffin/Frozen), IP (Native and Denatured), Western Blot

**Species Reactivity:**

Human. Reacts with all Vertebrate, Insects, and Schizosaccharomyces.

**Recommended Positive Control:**

Spleen, Tonsil, Carcinomas

**Presentation:**

Prediluted in an Antibody Diluting Buffer, pH 7.6.

**Staining Procedure:**

For paraffin-embedded tissue sections, we recommend an incubation time and temperature of 30 minutes at 37°C for this antibody, when used in conjunction with an immunoperoxidase staining kit. \*Prolonged fixation in buffered formalin can destroy the epitope. High temperature. Antigen Unmasking (10mM Citrate buffer) IS REQUIRED FOR FORMALIN FIXED PARAFFIN EMBEDDED TISSUE SECTIONS. Boiling tissue in 10 mM citrate buffer, pH 6.0 for 10 mins, followed by cooling at RT for 10-20 mins.

**Storage:**

Refrigerate at 4°C. Do not freeze.

**Size:** 5 ml

**Clone:** PC10

**Isotype:** IgG2a, k

**Host:** Mouse

**Form:** Prediluted

**Units On Hand:** YES

**References:**

1. Waseem NH, Lane DP. Monoclonal antibody analysis of the proliferating cell nuclear antigen (PCNA). Structural conservation and the detection of a nucleolar form. J Cell Sci. 96: 121-9, 1990.
2. Miyachi K, Fritzler MJ, Tan EM. Autoantibody to a nuclear antigen in proliferating cells. J Immunol. 121: 2228-34, 1978.
3. Takasaki Y, Fishwild D, Tan EM. Characterization of proliferating cell nuclear antigen recognized by autoantibodies in lupus sera. J Exp Med. 159: 981-92, 1984.
4. Celis JE, Bravo R, Larsen PM, Fey SJ. Cylin: a nuclear protein whose level correlates directly with the proliferative state of normal as well as transformed cells. Leuk Res. 8: 143-57, 1984.
5. Carlos Martin-Cordova, et. al., Journal of Histotechnology, 19:109, 1996.

**For Research Use Only**