



**Category:** Monoclonal Antibodies      **Cat. #** V7011      **Product Name:** p105 Proliferation Associated Nuclear Antigen (PANA)

**Description:**  
Monoclonal Mouse Anti-Human p105 Proliferating-Associated Nuclear Antigen

**Immunogen:**  
Activated peripheral blood nuclei.

**Cellular Localization:**  
Nuclear

**Application:**  
Immunohistochemistry -- 1:50-1:100 -Formalin-fixed paraffin-embedded (FFPE) tissue sections require pepsin or trypsin digestion. Western Blotting --1:100-1:200 .

**Species Reactivity:**  
Human. Others not tested.

**Recommended Positive Control:**  
Human tonsil or lymph node.

**Presentation:**  
20 mM tris-borate, 150 mM Sodium Chloride, and 0.05% Sodium Azide, pH 7.5.

**Aliquoting Instructions:**  
In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies. Avoid diluting the entire contents of the vial at once since the diluted solution may have reduced stability.

**Staining Procedure:**  
This antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. FFPE tissue sections require pepsin or trypsin digestion. Prolonged fixation in buffered formalin can destroy the epitope. It is recommended that this product be used on frozen tissue sections or specimens. The optimal conditions should be determined by the individual laboratory.

**Specificity:**  
The p105 protein, found in all human cells in a dimeric form (105 kD) and monomeric form (41 kD), is a proliferation-associated nuclear antigen that is absent in non-cycling cells in the G0 phase. This protein is important in the synthesis and transport of RNA in the cell regulation cycle. During G2 and mitosis, this protein is increased possibly due to the unmasking of nucleolar antigens, resulting in large accumulations of this protein in the mitotic cytoplasm.

**Storage:**  
Store at 2~8o C for short term, freeze under -20oC for long term storage

**Size:** 0.2mg  
**Clone:** B301(2B3)  
**Isotype:** IgM  
**Host:** Mouse  
**Form:** Purified  
**Mol. Wt. of Antigen:** Dimeric form 105 kD, Monomeric form 41 kD  
**Concentration:** 0.5 mg/ml  
**Units On Hand:** YES

**References:**  
1. Clevenger, CV., Epstein, AL., Exp.Cell.Res., 151:194-207, 1984.  
2. Clevenger, CV., Epstein, AL., J. of Histochemistry and Cytochemistry, 32: 757-765, 1984.  
3. Clevenger, CV., et. al., Cytometry 6:208-214, 1985.

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