



**Category:** Monoclonal Antibodies      **Cat. #** 1107NF-V7010      **Product Name:** p34, cdc-2 Nuclear Protein

**Description:**  
Monoclonal Mouse Anti-Human p34, cdc-2 Nuclear Protein.

**Immunogen:**  
The recombinant human p34.cdc2 fusion protein.

**Application:**  
Immunohistochemistry ; Western Blotting .

**Species Reactivity:**  
Human Tested, others not tested.

**Presentation:**  
20 mM tris-borate, 150 mM Sodium Chloride, dialyzed media RPMI 1640/D-MEM containing fetal bovine serum, BMC-6 carrier polysaccharides, carrier protein, and 0.05% Sodium Azide, pH 7.5.

**Aliquoting Instructions:**  
Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. 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. When diluting for immunohistochemistry, ELISA or western blot, make the dilution in Antibody Diluting Buffer. 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 tissue sections. Prolonged fixation in buffered formalin can destroy the epitope. The antibody may be used in IHC. 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:**  
This antibody reacts with a 34 kD cyclic dependent serine/threonine kinase protein. P34 cdc2 and cyclin B1 are catalytic subunits of the maturation promoting factor (MPF). This antigen is activated with cyclins through dephosphorylation of tyrosine residue, initiates the entry of cells into mitosis, and is followed by the breakdown of the nuclear envelope. Expression of this antigen reflects the proliferating potential of positively staining tissue.

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

**Size:** 0.5 ml  
**Clone:** B322 (POH-1)  
**Isotype:** IgG2a  
**Host:** Mouse  
**Form:** Concentrated  
**Concentration:** .5 mg/ml  
**Units On Hand:** YES

**References:**

1. Pines, J., Hunter, T., "Cyclin-dependent kinases: a new cell cycle motif?" Trends in Cell Biology, 1:117- 121, 1991.
2. Lukas, J., Draetta, G., Bartek, J., "Distinct forms of human CDC2 identified by novel monoclonal antibodies". Eur. J. Biochem., 27: 169-176, 1992.

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