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Bhubaneswar, Odisha - 751024, INDIA

## 36-1004: Monoclonal Antibody to p21WAF1 (Tumor Suppressor Protein)(Clone: SPM306)

Clonality: Monoclonal SPM306 Clone Name:

Application: FACS, IF, WB, IHC

Reactivity: Human Gene: CDKN1A Gene ID: 1026 **Uniprot ID:** P38936 Format: Purified

**Alternative Name:** CDKN1A,CAP20,CDKN1,CIP1,MDA6,PIC1,SDI1,WAF1

Isotype: Mouse IgG2a, kappa

Immunogen Information: Human recombinant p21 protein

## **Description**

This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors. p21WAF1 is a specific inhibitor of cdk s and a tumor suppressor involved in the pathogenesis of a variety of malignancies. The expression of this gene acts as an inhibitor of the cell cycle during G1 phase and is tightly controlled by the tumor suppressor protein p53. Its expression is induced by the wild type, but not mutant, p53 suppressor protein. Normal cells generally display a rather intense nuclear p21 expression. Loss of p21 expression has been reported in many carcinomas (gastric carcinoma, non-small cell lung carcinoma, thyroid carcinoma).

## **Product Info**

Amount: 100 µg

**Purification:** Affinity Chromatography

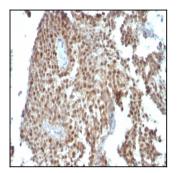
100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly Content:

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid Storage condition:

repeated freeze and thaw cycles.

## **Application Note**

Flow Cytometry (1-2ug/mil); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (2-4ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with p21 Monoclonal Antibody (SPM306).