Moab anti P21 \textsuperscript{WAF1}, 7 ml Ready to use  
Clone DSC-60.2  
Cat. no. MON-RTU1227

**Specificity**
p21 is a nuclear 21kD protein, a product of WAF1/CIP1 gene. It is a cyclin-dependent kinase inhibitor 1A (p21, Cip1), also known as CDKN1A, which in humans is encoded by the CDKN1A gene located on chromosome (6p21.2). It is a constituent of a large complex of nuclear proteins, including cyclins, cyclin dependent kinases, and PCNA. Cell cycle progression is regulated by cyclins and their cognate Cdk.s. p21 inhibits the activity of each member of the cyclin/Cdk family. 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. Normal cells generally display a rather intense nuclear p21 expression. Loss of p21 expression has been associated with poor prognosis in several carcinomas (gastric carcinoma, non-small cell lung carcinoma, thyroid carcinoma).

**Use**
Paraffin, Frozen

**Preparation and Pretreatment**
1. Cut 3 - 4 μm section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58° C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) techniques in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

**Positive control**
Colon carcinoma, colon, tonsil

**Staining pattern**
Cytoplasmic, nuclear

**Presentation**
7 ml. prediluted Ready to use
Anti-p21WAF1 is a mouse monoclonal antibody, diluted in phosphate buffered saline, pH 7.4, with protein base, and preserved with sodium azide preservative.

**Storage & handling**
Storage antibody at 2-8°C until expiry date. For extended storage, the solution may be frozen in suitable aliquots. Avoid freeze/thaw cycles.
References:

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

Also available on request:
0.1 ml, concentrate 421M-14 1:100 - 1:500*
0.5 ml, concentrate 421M-15 1:100 - 1:500*
1 ml, concentrate 421M-16 1:100 - 1:500*
1 ml, prediluted 421M-17 Ready to use

* The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.