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### SZABO-SCANDIC HandelsgmbH

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## Purified Mouse anti-p21Waf1 Monoclonal Antibody

**CLX174AP**

**Lot:**

**Size:** 0.1 mg

**Clone:** WA-1

**Isotype:** Mouse IgG1

**Specificity:** The antibody WA-1 reacts with p21 protein (Waf1, Cip1, SDI 1), a 21 kDa tumour suppressor, which inhibits the activity of cyclin-dependent family kinases and of proliferating cell nuclear antigen.

**Immunogen:** Human p21 protein

**Application:** Western Blotting  
Immunohistochemistry (paraffin sections)  
Positive tissue: colon carcinoma  
Immunocytochemistry  
ELISA

**Purity:** > 95% (by SDS-PAGE)

**Purification:** Purified from ascites by precipitation methods.

**Concentration:** 1 mg/ml

**Storage Buffer:** Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4.

**Storage / Stability:** Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Background:** The tumour suppressor p21Waf1 (Wild-type p53-Activated Fragment 1; also known as Cip1, Cdk interacting protein, or SDI 1) is a cyclin-dependent kinase (Cdk) inhibitor, which is expressed by involvement of p53, Egr-1, AP2, STATs or other transcription factors upon various stimuli resulting in cell cycle arrest. Through its N-terminal domain

*Continued...*

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p21Waf1 inhibits Cdk activity, whereas through the C-terminal domain it inhibits the activity of PCNA (proliferating cell nuclear antigen) to activate DNA replication. Cytosolic location of p21 counteracts its inhibitory activities. HSV2 - generally infects the genital area (Genital Herpes); however, HSV2 can also infect the mouth.

**References:**

- \*Waga S, Hannon GJ, Beach D, Stillman B: The p21 inhibitor of cyclin-dependent kinases controls DNA replication by interaction with PCNA. *Nature*. 1994 Jun 16;369(6481):574-8.
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- \*Choi BH, Kim CG, Bae YS, Lim Y, Lee YH, Shin SY: p21 Waf1/Cip1 expression by curcumin in U-87MG human glioma cells: role of early growth response-1 expression. *Cancer Res*. 2008 Mar 1;68(5):1369-77.
- \*Kolar Z, Murray PG, Scott K, Harrison A, Vojtesek B, Dusek J: Relation of Bcl-2 expression to androgen receptor, p21WAF1/CIP1, and cyclin D1 status in prostate cancer. *Mol Pathol*. 2000 Feb;53(1):15-8.

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