



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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p21 WAF-1. Mouse Monoclonal Antibody

**BACKGROUND**

p21, also known as wild-type p53-activated factor (WAF-1) or Cdk-interacting protein (CIP1), expression is predominantly induced by p53. This expression is usually in response to DNA damage caused by cytotoxic agents. The expression of p21 interrupts the cell cycle and prevents the replication of the cell containing genomic errors. p21 inhibits Cdk2, Cdk3, Cdk4 and Cdk6 to stop the cell cycle. Contained in the human p21 is a highly conserved cysteine-rich region (amino acids 21-60) with a potential zinc finger domain as well as a second conserved region (amino acids 130-164) which contains several putative nuclear localization signals. p21 can also interact with proliferating cell nuclear antigen (PCNA), Gadd45, Cdk2 and cyclins which suggests it may coordinate DNA repair and replication in damaged cells.

**IMMUNOGEN**

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with human p21 protein and mouse myeloma SP2 cells.

**POSITIVE CONTROL/TISSUE EXPRESSION**

MCF7 cell lysate

**COMMENTS**

Detects p21 protein by Western blot at 1 to 10  $\mu\text{g/ml}$ . Detects a 21 kDa protein in MCF7 cells. Can be used with either frozen or paraffin embedded tissue sections. Optimal concentration should be evaluated by serial dilutions. Other Applications: ELISA

**ORDERING INFORMATION**

**CATALOG NUMBER**

X1158M

**SIZE**

100  $\mu\text{g}$

**FORM**

Unconjugated

**HOST/CLONE**

Mouse Clone WA-1

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG1

**APPLICATIONS**

Western Blot, ELISA

**SPECIES REACTIVITY**

Human

**ACCESSION NUMBER**

,

**PURIFICATION**

Protein A/G Chromatography

**SHIP CONDITIONS**

Room Temperature

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Hellin, A.C., et al. Roles of Nuclear Factor-kappaB, p53 and p21/WAF1 in Daunomycin-induced cell cycle arrest and apoptosis. *J. Pharmacol. Exp. Ther.* 2000, 295, 870-878
2. El-Deiry, W.S., et al. WAF1, a potential mediator of p53 tumor suppression. *Cell* 1993, 75, 817-825
3. Xiong, Y., et al. p21 is a universal inhibitor of cyclin kinases. *Nature (Lond)* 1993, 366, 701-704 4. Zhang, H., et al. Proliferating cell nuclear antigen and p21 are components of multiple cell cycle kinase complexes. *Mol. Biol. Cell* 1993, 4, 897-906
5. Kovalic, J., et al. *Int. J. Oncol.* 1996, 9 (suppl.), 835