Datasheet

Mouse mAb to **p21/ WAF1**
Clone **WA-1**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with human p21 protein.
Fusion partner: Sp2/0.

Specifications

WA-1 reacts with human and other mammalian p21, a tumor suppressor protein, belonging to the CDI family. The intracellular protein p21 is a 21 kDa protein, also known as wild-type p53-activated fragment 1 (WAF1). It is an inhibitor of cyclin-dependent kinases (Cdks) and of proliferating-cell nuclear antigen (PCNA). It is induced by wild type p53, but not by mutated p53, by mezerein (anti-leukemic compound) and by interferon-ß. 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 and thyroid carcinoma).

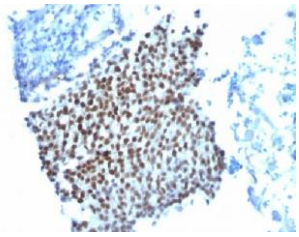

Figure 1: Bladder carcinoma stained with WA-1 (paraffin)

Species reactivity

Positive: human, chimpanzee, monkey, mouse, rat.

Applications

WA-1 can be used in immunohistochemistry, immunofluorescence tests and ELISA, both as solid phase and as tracer antibody.

ELISA	Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections
+	+	+	+	Citrate

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.
Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

Dilution advice

- ELISA (solid phase: 0,1-100 µg/ml; tracer: 0,001-100 µg/ml for 30 min at RT).
- Flow Cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (1-2 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).

Positive control

MCF7 cells, UV treated fibroblasts, HeLa cells, skin, colon, or breast carcinoma.

References

- Kovaric, J. et al, *Int. J. Oncol.* **9(suppl.)**, 835 (1996).