Monoclonal Antibody to p21Waf1
Purified Antibody (0.025 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.

Regulatory Status: RUO

Immunogen: Human p21 protein
Species Reactivity: Human, Non-Human Primates

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

Purity: > 95% (by SDS-PAGE)
Purification: Purified by protein-A affinity chromatography
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 freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label

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 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.
References:


