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36-1008: Monoclonal Antibody to p27Kip1 (Mitotic Inhibitor/Suppressor Protein)(Clone: SX53G8)

Clonality: Monoclonal
Clone Name: SX53G8
Application: FACS,IF,IHC

Reactivity: Human, Mouse, Rat

 Gene :
 CDKN1B

 Gene ID :
 1027

 Uniprot ID :
 P46527

 Format :
 Purified

 Alternative Name :
 CDKN1B,KIP1

 Isotype :
 Mouse IgG1, kappa

Immunogen Information: Purified GST-p27 fusion protein of human origin

Description

This MAb recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors. In Western blotting of cell lysates from 7 human breast cancer cell lines (ZR75-1, ZR75-30, MCF-7, MDAMB453, T47D, CAL51, 734B), the antibody labels a single band corresponding to p27Kip1. It functions as a negative regulator of G1 progression and has been proposed to function as a possible mediator of TGF- induced G1 arrest. p27Kip1 is a candidate tumor suppressor gene. Reportedly, low p27 expression has been associated with unfavorable prognosis in renal cell carcinoma, colon carcinoma, breast carcinomas, non-small-cell lung carcinoma, hepatocellular carcinoma, multiple myeloma, and lymph node metastases in papillary carcinoma of the thyroid, as well as a more aggressive phenotype in carcinoma of the cervix.

Product Info

Amount : 100 μg

Purification: Affinity Chromatography

Content: 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

Storage condition:

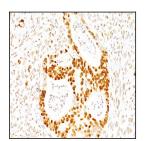
Storage condition:

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

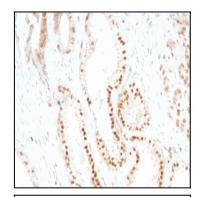


Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with p27 Monoclonal Antibody (SX53G8)

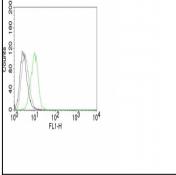


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Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with p27 Monoclonal Antibody (SX53G8)



Flow Cytometry of human p27 on HeLa Cells.Black: Cells alone; Grey: Isotype Control; Green: AF488-labeled p27 Monoclonal Antibody (SX53G8).