

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	SX53G8
<b>Application :</b>	FACS,IF,IHC
<b>Reactivity :</b>	Human, Mouse, Rat
<b>Gene :</b>	CDKN1B
<b>Gene ID :</b>	1027
<b>Uniprot ID :</b>	P46527
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CDKN1B,KIP1
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Purified GST-p27 fusion protein of human origin

### Description

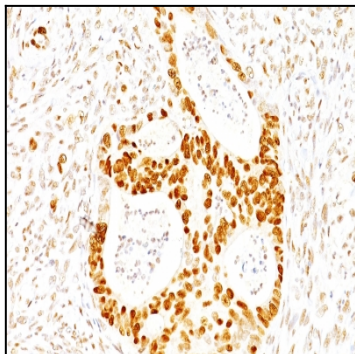
This MAb recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors. In Western blotting of cell lysates from 7 human breast cancer cell lines (ZR75-1, ZR75-30, MCF-7, MDAMB453, 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

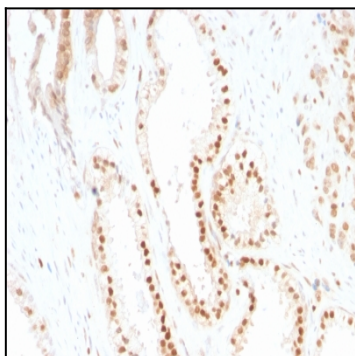
<b>Amount :</b>	100 µg
<b>Purification :</b>	Affinity Chromatography
<b>Content :</b>	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

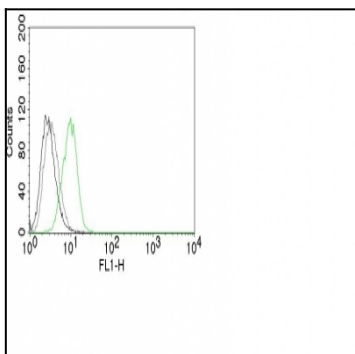
Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20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



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



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).