

Product datasheet for **AM10127PU-S**

p27 KIP 1 (CDKN1B) Mouse Monoclonal Antibody [Clone ID: SX53G8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SX53G8
Applications:	FC, IF, IHC, WB
Recommended Dilution:	Western Blotting: 0.5-1 µg/ml. Flow Cytometry: 0.5-1 µg/10 ⁶ cells in 100 µl. Immunofluorescence: 0.5-1 µg/ml. Immunohistochemistry on Formalin-Fixed Paraffin Sections: 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues 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: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, Breast or Colon Carcinoma.
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified GST-p27 fusion protein of human origin.
Specificity:	This Monoclonal Antibody (Clone SX53G8) recognizes a 27kDa protein, identified as the p27 ^{Kip1} , a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors. p27 ^{Kip1} functions as a negative regulator of G1 progression and has been proposed to function as a possible mediator of TGF-beta induced G1 arrest. p27 ^{Kip1} is a candidate tumor suppressor gene. This Monoclonal Antibody (Clone SX53G8) co-precipitates cdk4 in complex with p27 ^{Kip1} and is excellent for staining of formalin-fixed tissues. Cellular Localization: Nuclear.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide



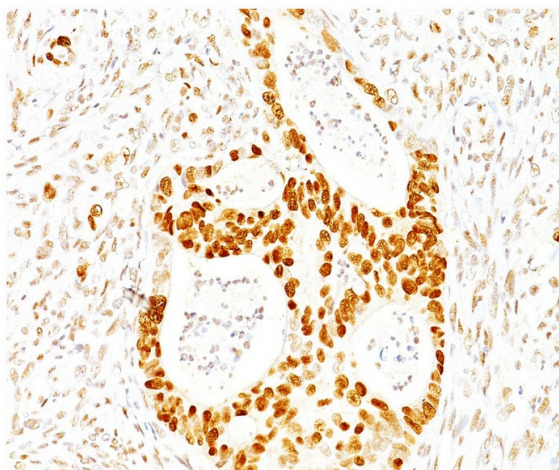
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Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	25-26 kDa
Gene Name:	cyclin-dependent kinase inhibitor 1B
Database Link:	Entrez Gene 1027 Human P46527

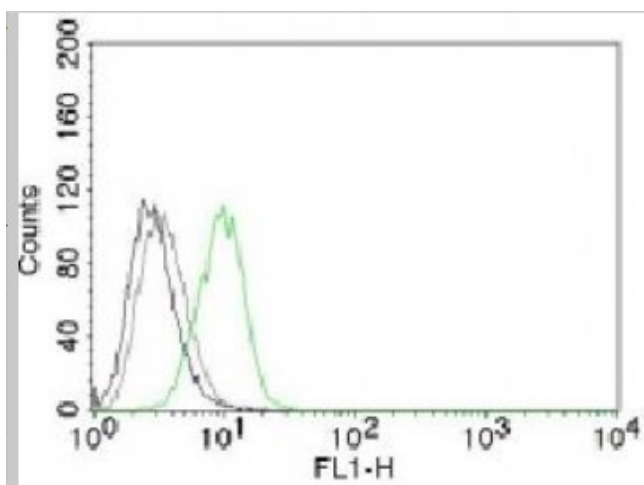
Background: Cell cycle progression is regulated by cyclins and their cognate Cdk. p27 KIP 1 is a cell cycle regulatory mitotic inhibitor of cdk activity. p27 KIP 1 is a candidate tumor suppressor gene, and has been proposed to function as a possible mediator of TGF beta induced G1 arrest. p27 KIP 1 is up regulated in response to antimitogenic stimuli. The increased protein expression of p27 results in cellular arrest by binding to cyclin/Cdk complexes such as cyclin D1/Cdk4. p27 Kip1 is regulated by phosphorylation on serine 10 (S10) and threonine 187 (T187). Phosphorylation by CDK2 on T187 results in ubiquitylation and degradation of p27 Kip 1; while phosphorylation by hKIS on S10 signals the nuclear export to the cytoplasm.

Synonyms: p27Kip1

Product images:



Formalin-Fixed, Paraffin-Embedded Human colon stained with CDKN1B / KIP1 Antibody (Clone SX53G8).



Flow Cytometry of Human p27 on HeLa Cells.