



p27^{Kip1} (Mitotic Inhibitor/Suppressor Protein); Clone SX53G8 (Concentrate)

Availability/Contents:	<u>Item #</u>	<u>Volume</u>
	RA0077-C.5	0.5 ml
Description:		
Species:	Mouse	
Immunogen:	Purified GST-p27 fusion protein of human origin	
Clone:	SX53G8	
Isotype:	IgG1, kappa	
Entrez Gene ID:	1027 (Human)	
Hu Chromosome Loc.:	12p13.1	
Synonyms:	CDKN1B, CDKN4, Cyclin Dependent Kinase Inhibitor 1B, Cyclin-dependent kinase inhibitor p27 Kip1, KIP1, MEN1B, MEN4	
Mol. Weight of Antigen:	25-26kDa	
Format:	200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.	
Specificity:	This antibody recognizes a 27kDa protein, identified as p27 ^{Kip1} , a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.	
Background:	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 p27 ^{Kip1} . It functions as a negative regulator of G1 progression and has been proposed to function as a possible mediator of TGF-β induced G1 arrest. p27 ^{Kip1} 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.	
Species Reactivity:	Human, Mouse, Rat and Monkey. Others not known.	
Positive Control:	ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.	
Cellular Localization:	Nuclear	
Titer/ Working Dilution:	Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml	
	Flow Cytometry:	0.5-1 µg/million cells
	Immunofluorescence:	0.5-1 µg/ml
	Western Blotting:	0.5-1 µg/ml
	Immunoprecipitation:	0.5-1 µg/500µg protein lysate
Microbiological State:	This product is not sterile.	

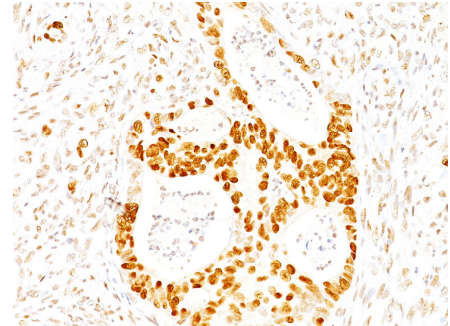
Storage: 2° C  8° C

 ScyTek Laboratories, Inc.
 205 South 600 West
 Logan, UT 84321
 U.S.A.



 EmergoEurope (31)(0) 70 345-8570
 Molsnstraat 15
 2513 BH Hague, The Netherlands

Uses/Limitations: Not to be taken internally.
 For Research Use Only.
 This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
 Do not use if reagent becomes cloudy.
 Do not use past expiration date.
 Non-Sterile.



Formalin-paraffin human colon stained with p27^{Kip1}; Clone SX53G8.

Ordering Information and Current Pricing at www.scytek.com

Procedure:

1. **Tissue Section Pretreatment (Required):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
3. **Visualization:** For maximum staining intensity we recommend the “UltraTek HRP Anti-Polyvalent Lab Pack” (ScyTek catalog# UHP125, see IFU for instructions) combined with the “DAB Chromogen/Substrate Bulk Pack (High Contrast)” (ScyTek catalog# ACV500, see IFU for instructions).

Precautions:

Contains Sodium Azide as a preservative (0.09% w/v).
 Do not pipette by mouth.
 Avoid contact of reagents and specimens with skin and mucous membranes.
 Avoid microbial contamination of reagents or increased nonspecific staining may occur.
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.


References:

1. Fredersdorf S, Burns J, Milne AM, Packham G, Fallis L, Gillett CE, et al. High level expression of p27Kip1 and cyclin D1 in some human breast cancer cells: Inverse correlation between the expression of p27Kip1 and degree of malignancy in human breast and colorectal cancers. Proc Natl Acad Sci 1997;94:6380-5.

Warranty:


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