

Datasheet for ABIN6939044

anti-CDKN1B antibody

6 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CDKN1B
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CDKN1B antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Purified GST-p27 fusion protein of human origin
Clone:	SX53G8
Isotype:	IgG1
Specificity:	<p>This MAb recognizes a 27 kDa 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.</p> <p>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</p>

Product Details

	papillary carcinoma of the thyroid, as well as a more aggressive phenotype in carcinoma of the cervix.
Cross-Reactivity (Details):	Human, Mouse, Rat, Monkey,
Purification:	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target:	CDKN1B
Alternative Name:	CDKN1B (CDKN1B Products)
Background:	CDKN1B, CDKN4, Cyclin Dependent Kinase Inhibitor 1B, Cyclin-dependent kinase inhibitor p27 Kip1, KIP1, MEN1B, MEN4,p27Kip1 (Mitotic Inhibitor/Suppressor Protein) Cellular localisation: Nuclear
Molecular Weight:	25-26kDa
Gene ID:	1027, 238990
UniProt:	P46527
Pathways:	Cell Division Cycle , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Negative Regulation of Hormone Secretion , Sensory Perception of Sound , Mitotic G1-G1/S Phases , DNA Replication , Positive Regulation of Endopeptidase Activity , Synthesis of DNA , Autophagy

Application Details

Application Notes:	Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, HeLa or MCF7 cells. Tonsil, Breast, Cervical or Colon Carcinoma. Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (0.25-0.5 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

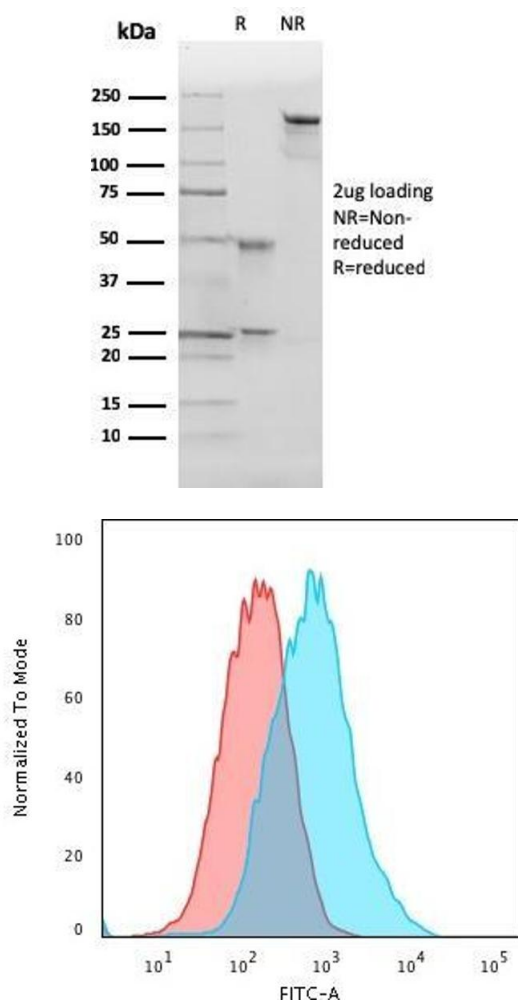
Handling

Concentration:	200 µg/mL
----------------	-----------

Handling

Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images

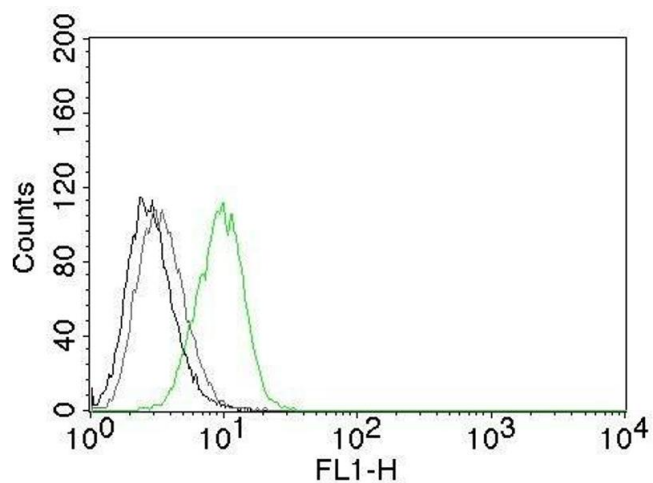


SDS-PAGE

Image 1. SDS-PAGE Analysis of Purified p27 Mouse Monoclonal Antibody (SX53G8). Confirmation of purity and integrity.

Flow Cytometry

Image 2. Flow Cytometric Analysis of PFA-fixed MCF-7 cells using p27 Mouse Monoclonal Antibody (SX53G8) followed by Goat anti-Mouse-IgG-CF488 (Blue); Isotype Control (Red).



Flow Cytometry

Image 3. Flow Cytometry of human p27 on HeLa cells.
Black: cells alone; Grey: Isotype Control; Green: AF488-labeled p27 Mouse Monoclonal Antibody (SX53G8).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6939044.