

Human/Mouse/Rat p27/Kip1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2256

DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human, mouse and rat p27.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human p27 Met1-Thr198 Accession # P46527	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

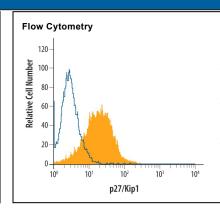
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	1 μg/mL	See Below	
Flow Cytometry	2.5 μg/10 ⁶ cells	See Below	
CyTOF-ready	Ready to be labeled with conjugation.	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	



Detection of Human p27/Kip1 by Western Blot. Western blot shows Iysates of MCF-7 human breast cancer cell line and U2OS human osteosarcoma cell line. PVDF membrane was probed with 1 μ g/mL of Goat Anti-Human p27/Kip1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2256) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for p27/Kip1 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of p27/Kip1in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells were stained with Goat Anti-Human p27/Kip1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2256, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrinconjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

The cyclin-dependent kinase (cdk) inhibitor p27/Kip1 is a tumor suppressor protein that acts in the nucleus to enforce cell cycle checkpoints. p27/Kip1 binds to and inhibits many cyclin/cdk complexes, including cyclin D/cdk4, cyclin E/cdk2, and cyclin A/cdk2. This inhibition can subsequently block progression through different phases of the cell cycle.

Rev. 2/6/2018 Page 1 of 1

