

Human/Mouse/Rat p27/Kip1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 225501

Catalog Number: MAB2256

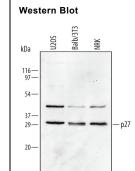
DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat p27 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 225501
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human p27 Met1-Thr198 Accession # 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	0.2 μg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	Human peripheral blood mononuclear cells fixed with paraformaldehyde and permeabilized with saponin
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Detection of Human/Mouse/Rat p27/Kip1 by Western Blot. Western blot shows lysates of NRK rat normal kidney cell line, U2OS human osteosarcoma cell line, and Balb/3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.2 μ g/mL of Mouse Anti-Human/Mouse/Rat p27/Kip1 Monoclonal Antibody (Catalog # MAB2256) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). 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.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 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		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		

- 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.

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