Human/Mouse/Rat p27/Kip1 Antibody

Monoclonal Rat IgG_{2A} Clone # 341116

Catalog Number: MAB22561

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human p27/Kip1 in direct ELISAs. Specificity was demonstrated by comparing staining on tissue sections of normal versus p27/Kip1 knockout mice.
Source	Monoclonal Rat IgG_{2A} Clone # 341116
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human p27/Kip1 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.

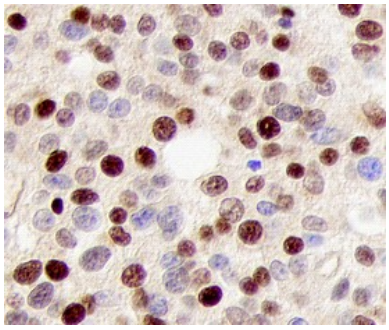
APPLICATIONS

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
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



p27/Kip1 in Human Prostate Cancer Tissue.
p27/Kip1 was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using 25 µg/mL Rat Anti-Human/Mouse/Rat p27/Kip1 Monoclonal Antibody (Catalog # MAB22561) overnight at 4 °C. Tissue was stained with the Human p27 Immunohistochemistry Detection Kit (brown; Catalog # CTS2256) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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. Human p27/Kip1 shares 88% and 87% amino acid sequence identity with mouse and rat p27/Kip1, respectively, while mouse and rat p27/Kip1 share 96% amino acid sequence identity.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449