Human Phospho-p27/Kip1 (T198) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG

Catalog Number: AF3994

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human p27/Kip1 when phosphorylated at T198. Does not recognize p27/Kip1 when unphosphorylated at T198.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human p27/Kip1 T198 site
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 as a 0.2 µm filtered solution in PBS.

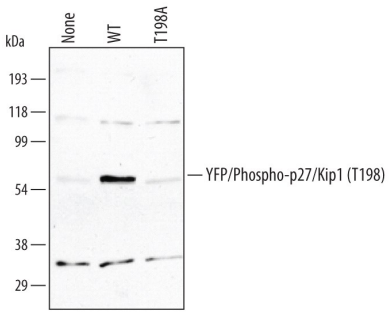
APPLICATIONS

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	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human Phospho-p27/Kip1 (T198) by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, non-transfected, transfected with plasmid expressing YFP-p27/Kip1 wild type (WT), or transfected with YFP-p27/Kip1 T198A mutant (T198A). PVDF membrane was probed with 0.5 µg/mL Rabbit Anti-Human Phospho-p27/Kip1 (T198) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3994) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band for p27/Kip1 was detected at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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
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. p27/Kip1 is phosphorylated at T198 in cells treated with the AMP-dependent protein kinase (AMPK) activator AICAR (5-amino-4-imidazolecarboxamide riboside) or glucose withdrawal.

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