

Human Phospho-p27/Kip1 (T198) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF3994

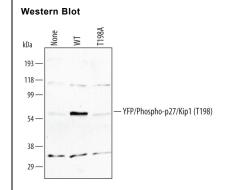
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human p27/Kip1 when phosphorylated at T198. Does not recognize p27/Kip1 when unphosphorylated at T198.		
Source	Polyclonal Rabbit IgG		
Purification	Antigen Affinity-purified		
Immunogen	Phosphopeptide containing human p27/Kip1 T198 site		
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 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	0.5 μg/mL	See Below

DATA



Detection of Human Phospho-p27/Kip1 (T198) by Western Blot, Western blot shows lysates of MCF-7 human breast cancer cell line, nontransfected, transfected with plasmid expressing YFPp27/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 HRPconjugated 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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