

Phospho-p27Kip1(T157) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3193a

Specification

Phospho-p27Kip1(T157) Antibody - Product Information

Application	IHC-P, DB,E
Primary Accession	P46527
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig

Phospho-p27Kip1(T157) Antibody - Additional Information

Gene ID 1027

Other Names

Cyclin-dependent kinase inhibitor 1B,
Cyclin-dependent kinase inhibitor p27,
p27Kip1, CDKN1B, KIP1

Target/Specificity

This p27Kip1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T157 of human p27Kip1.

Dilution

IHC-P~~1:50~100
DB~~1:500

Format

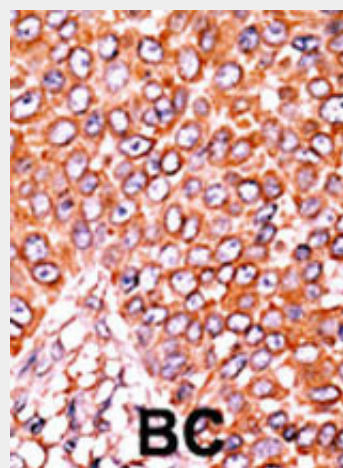
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

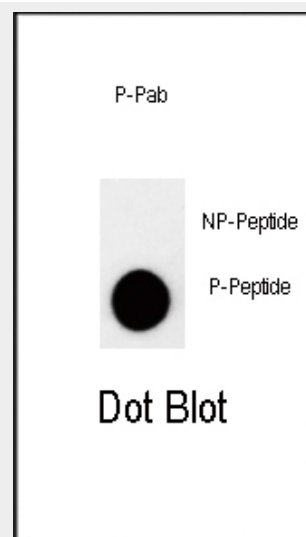
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-p27Kip1(T157) Antibody is for research use only and not for use in



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Dot blot analysis of anti-p27Kip1-T157 Phospho-specific Pab (Cat. #AP3193a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per

diagnostic or therapeutic procedures.

Phospho-p27Kip1(T157) Antibody - Protein Information

Name CDKN1B

Synonyms KIP1

Function

Important regulator of cell cycle progression. Inhibits the kinase activity of CDK2 bound to cyclin A, but has little inhibitory activity on CDK2 bound to SPDYA (PubMed:28666995). Involved in G1 arrest. Potent inhibitor of cyclin E- and cyclin A-CDK2 complexes. Forms a complex with cyclin type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. Acts either as an inhibitor or an activator of cyclin type D-CDK4 complexes depending on its phosphorylation state and/or stoichiometry.

Cellular Location

Nucleus. Cytoplasm. Endosome.
Note=Nuclear and cytoplasmic in quiescent cells. AKT- or RSK-mediated phosphorylation on Thr-198, binds 14-3-3, translocates to the cytoplasm and promotes cell cycle progression. Mitogen-activated UHMK1 phosphorylation on Ser-10 also results in translocation to the cytoplasm and cell cycle progression. Phosphorylation on Ser-10 facilitates nuclear export. Translocates to the nucleus on phosphorylation of Tyr-88 and Tyr-89. Colocalizes at the endosome with SNX6; this leads to lysosomal degradation (By similarity)

Tissue Location

Expressed in all tissues tested. Highest levels in skeletal muscle, lowest in liver and kidney

Phospho-p27Kip1(T157) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Phospho-p27Kip1(T157) Antibody - Background

p27Kip1 is a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state.

Phospho-p27Kip1(T157) Antibody - References

Kawamata, N., et al., Eur. J. Haematol. 74(5):424-429 (2005).
Andreu, E.J., et al., Cancer Res. 65(8):3264-3272 (2005).
Wingate, H., et al., J. Biol. Chem. 280(15):15148-15157 (2005).
Wang, C., et al., J. Biol. Chem. 280(13):12339-12343 (2005).
Rassidakis, G.Z., et al., Blood 105(2):827-829 (2005).

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-p27Kip1(T157) Antibody - Citations

- [The role of p27\(Kip1\) in dasatinib-enhanced paclitaxel cytotoxicity in human ovarian cancer cells.](#)