

Anti-p27 Kip1 (pT198) Antibody
Rabbit polyclonal antibody to p27 Kip1 (pT198)
Catalog # AP59511

Specification

Anti-p27 Kip1 (pT198) Antibody - Product Information

Application	WB
Primary Accession	P46527
Other Accession	P46414
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22073

Anti-p27 Kip1 (pT198) Antibody - Additional Information

Gene ID 1027

Other Names

KIP1; Cyclin-dependent kinase inhibitor 1B; Cyclin-dependent kinase inhibitor p27; p27Kip1

Target/Specificity

Recognizes endogenous levels of p27 Kip1 (pT198) protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-p27 Kip1 (pT198) Antibody - Protein Information

Name CDKN1B {ECO:0000303|PubMed:20824794}

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

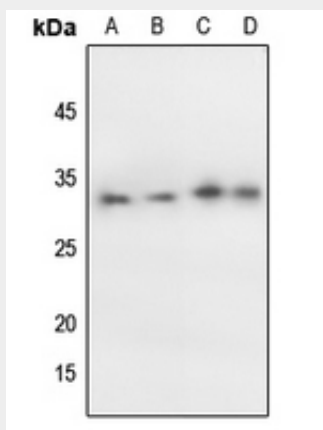
Expressed in kidney (at protein level) (PubMed:15509543). Expressed in all tissues tested (PubMed:8033212) Highest levels in skeletal muscle, lowest in liver and kidney (PubMed:8033212).

Anti-p27 Kip1 (pT198) Antibody - Protocols

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

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

Anti-p27 Kip1 (pT198) Antibody - Images



Western blot analysis of p27 Kip1 (pT198) expression in HEK293T (A), HeLa (B), rat lung (C), rat kidney (D) whole cell lysates.

Anti-p27 Kip1 (pT198) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human p27 Kip1. The exact sequence is proprietary.