

Datasheet for ABIN389617
anti-CDKN1B antibody (pThr187)



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Overview

Quantity:	400 µL
Target:	CDKN1B
Binding Specificity:	pThr187
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDKN1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This p27Kip1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T187 of human p27Kip1.
Clone:	RB07331
Isotype:	Ig Fraction
Predicted Reactivity:	Ha
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CDKN1B
Alternative Name:	p27Kip1 (CDKN1B Products)

Target Details

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.
Molecular Weight:	22073
Gene ID:	1027
NCBI Accession:	NP_004055
UniProt:	P46527
Pathways:	Cell Division Cycle , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Negative Regulation of Hormone Secretion , Sensory Perception of Sound , Mitotic G1-G1/S Phases , DNA Replication , Positive Regulation of Endopeptidase Activity , Synthesis of DNA , Autophagy

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

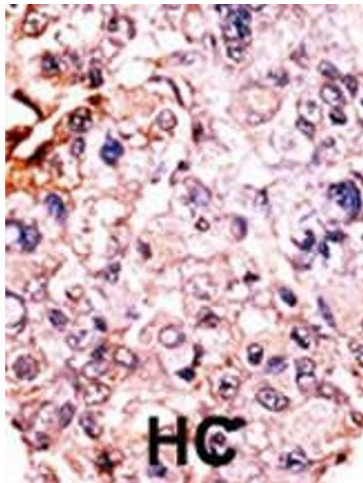
Publications

Product cited in: van der Sligte, Scherpen, Ter Elst, Guryev, van Leeuwen, de Bont: "Effect of IKZF1 deletions on signal transduction pathways in Philadelphia chromosome negative pediatric B-cell precursor acute lymphoblastic leukemia (BCP-ALL)." in: **Experimental hematology & oncology**, Vol. 4, pp. 23, (2015) ([PubMed](#)).

Fang, Zhang, Dizeyi, Chen, Wang, Swanson, Cai, Balk, Yuan: "Androgen Receptor Enhances p27 Degradation in Prostate Cancer Cells through Rapid and Selective TORC2 Activation." in: **The Journal of biological chemistry**, Vol. 287, Issue 3, pp. 2090-8, (2012) ([PubMed](#)).

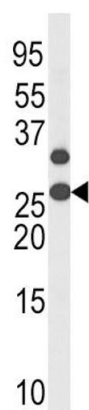
Le, Mao, He, Claret, Xia, Ahmed, Hung, Siddik, Bast: "The role of p27(Kip1) in dasatinib-enhanced paclitaxel cytotoxicity in human ovarian cancer cells." in: **Journal of the National Cancer Institute**, Vol. 103, Issue 18, pp. 1403-22, (2011) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. 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.



Western Blotting

Image 2. The anti-Phospho-p27Kip1-Pab (ABIN389617 and ABIN2839621) is used in Western blot to detect Phospho-p27Kip1- in HL60 tissue lysate