Datasheet for ABIN389612

anti-p21 antibody (pThr145)

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Overview

Quantity:	400 µL
Target:	p21 (CDKN1A)
Binding Specificity:	pThr145
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p21 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Dot Blot (DB)

Product Details

Immunogen:	This P21CIP1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T145 of human P21CIP1.
Clone:	RB07512
Isotype:	IgG
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	p21 (CDKN1A)
Alternative Name:	p21Cip1 (CDKN1A Products)

Target Details

Background:	P21CIP1 is a potent cyclin-dependent kinase inhibitor. This protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. Expression is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. P21CIP1 can interact with proliferating cell nuclear antigen (PCNA), a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein has been reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation.
Molecular Weight:	18119
Gene ID:	1026
NCBI Accession:	NP_000380, NP_001207706, NP_001207707, NP_510867
UniProt:	P38936
Pathways:	p53 Signaling, PI3K-Akt Signaling, Cell Division Cycle, AMPK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Mitotic G1-G1/S Phases, DNA Replication, Hepatitis C, Synthesis of DNA, Autophagy

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100. DB: 1:500
Restrictions:	For Research Use only

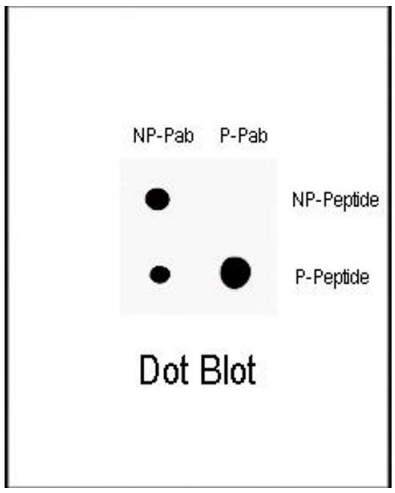
Handling

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

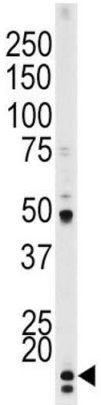
Product cited in: Hedlund, Karlsson, Osborn, Ludwig, Isacson: "Global gene expression profiling of somatic motor neuron populations with different vulnerability identify molecules and pathways of degeneration and protection." in: **Brain : a journal of neurology**, Vol. 133, Issue Pt 8, pp. 2313-30, (2010) (PubMed).

Images



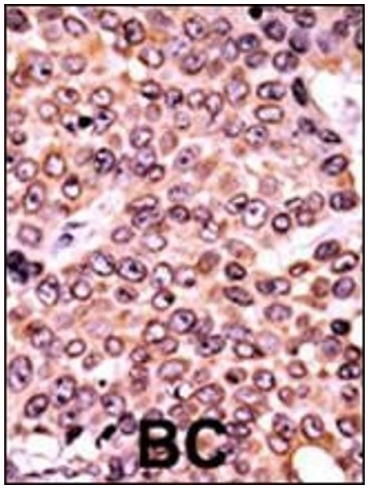
Dot Blot

Image 1. Dot blot analysis of anti-Phospho-P21CIP1-Antibody (ABIN389612 and ABIN2839616) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antobodies working concentration was 0.5 µg per ml.



Western Blotting

Image 2. The anti-Phospho-P21CIP1- Pab (ABIN389612 and ABIN2839616) is used in Western blot to detect Phospho-P21CIP1- in Hela tissue lysate.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. 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.