Datasheet for ABIN389626

anti-p53 antibody (pThr18)

3 Images

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Overview

Quantity:	400 µL
Target:	p53 (TP53)
Binding Specificity:	pThr18
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Dot Blot (DB)

Product Details

Immunogen:	This p53 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T18 of human p53.
Clone:	RB7704
Isotype:	Ig Fraction
Predicted Reactivity:	Pr, Pig, Rb
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	p53 (TP53)

Target Details

Alternative Name:	p53 (TP53 Products)
Background:	Tumor protein p53, a nuclear protein, plays an essential role in the regulation of cell cycle, specifically in the transition from G0 to G1. It is found in very low levels in normal cells, however, in a variety of transformed cell lines, it is expressed in high amounts, and believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing DNA-binding, oligomerization and transcription activation domains. It is postulated to bind as a tetramer to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of the TP53 gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome.
Molecular Weight:	43653
Gene ID:	7157
NCBI Accession:	NP_000537, NP_001119584, NP_001119585, NP_001119586, NP_001119587, NP_001119588, NP_001119589, NP_001119590, NP_001263624, NP_001263625, NP_001263626, NP_001263627, NP_001263628, NP_00126
UniProt:	P04637
Pathways:	p53 Signaling, MAPK Signaling, PI3K-Akt Signaling, Apoptosis, AMPK Signaling, Chromatin Binding, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C, Protein targeting to Nucleus, Autophagy, Warburg Effect

Application Details

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

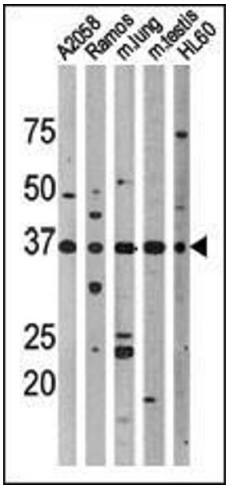
Handling

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

Handling

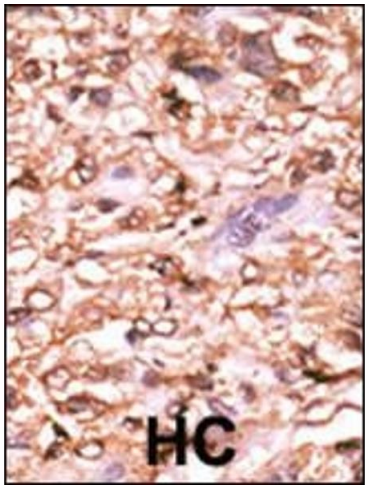
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Images



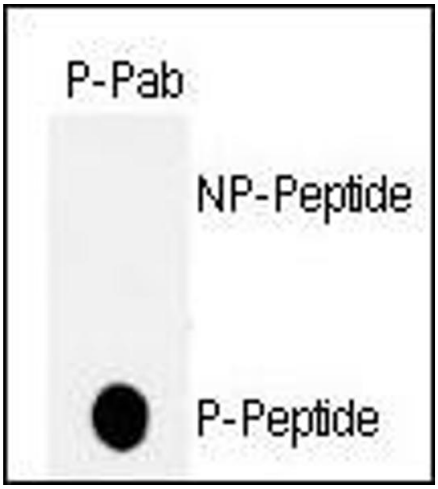
Western Blotting

Image 1. Western blot analysis of anti-Phospho-p53-T18 Pab (cat (ABIN389626 and ABIN2839626)) in, from left to right, , Ramos, mouse lung, mouse testis, and HL60 cell line lysates. Phospho-p53-T18(arrow) was detected using the purified Pab.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. 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

Image 3. Dot blot analysis of anti-hp53-T18 Phospho-specific Pab (ABIN389626 and ABIN2839626) on nitrocellulose membrane. 50 ng of nonphospho-peptide or phospho-peptide were adsorbed on their respective dots. Antibody working concentration was 0.5 µg per ml.