Datasheet for ABIN390204

anti-p53 antibody (AA 293-322)

7 Images

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Overview

Quantity:	400 µL
Target:	p53 (TP53)
Binding Specificity:	AA 293-322
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This p53 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 293-322 amino acids from human p53.
Clone:	RB7777
Isotype:	Ig Fraction
Predicted Reactivity:	Pr
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:	IF: 1:10~50. WB: 1:2000. WB: 1:2000. WB: 1:2000. WB: 1:2000. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

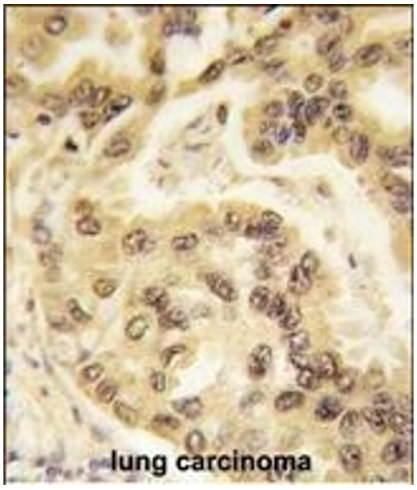
Handling

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

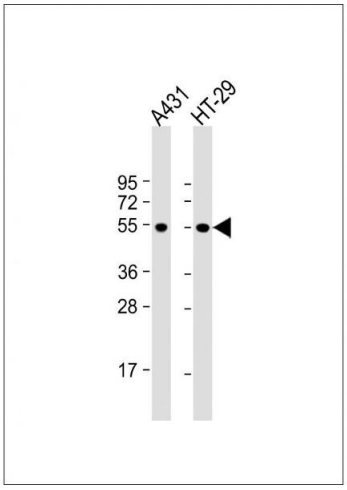
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Images



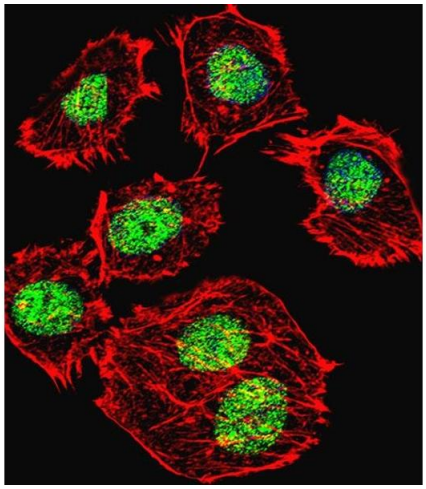
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with p53 Antibody h , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. All lanes : Anti-p53 Antibody at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: HT-29 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Immunofluorescence

Image 3. Fluorescent confocal image of cell stained with p53 Antibody h. cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with p53 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). Nuclei were counterstained with DI (blue) (10 µg/mL, 10 min). p53 immunoreactivity is localized to Nucleus significantly.

Please check the product details page for more images. Overall 7 images are available for ABIN390204.