Datasheet for ABIN3029384

anti-p53 antibody (AA 293-322)

5 Images

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Overview

Quantity:	0.4 mL
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), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 293-322 from the human protein was used as the immunogen for this p53 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Primate
Purification:	Antigen affinity purified

Target Details

Target:	p53 (TP53)
Alternative Name:	p53 (TP53 Products)
Background:	Tumor protein p53, a nuclear protein, plays an essential role in the regulation of cell cycle,

Target Details

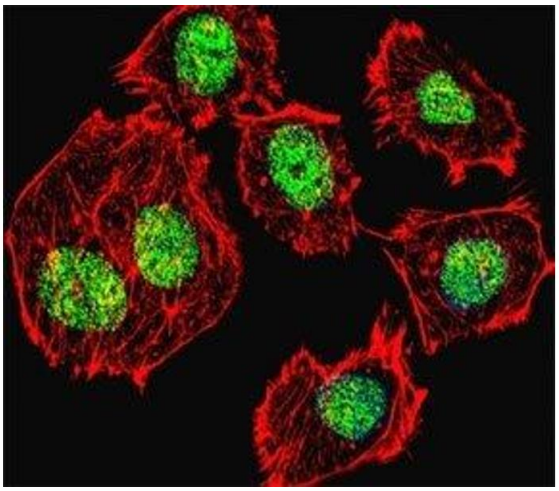
	specifically in the transition from G0 to G1. It is found in very low levels in normal cells, however, in a variety of transformed cell lines, it is expressed in high amounts, and believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing DNA-binding, oligomerization 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.
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:	Titration of the p53 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50,Immunofluorescence: 1:10-1:50
Restrictions:	For Research Use only

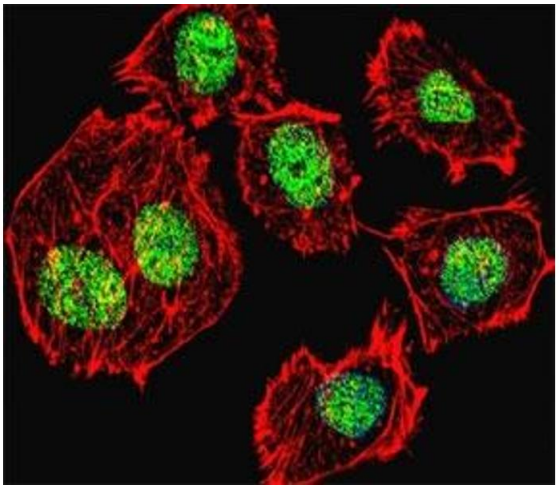
Handling

Format:	Liquid
Buffer:	In 1X PBS pH 7.4 with 0.09 % 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:	-20 °C
Storage Comment:	Aliquot the p53 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



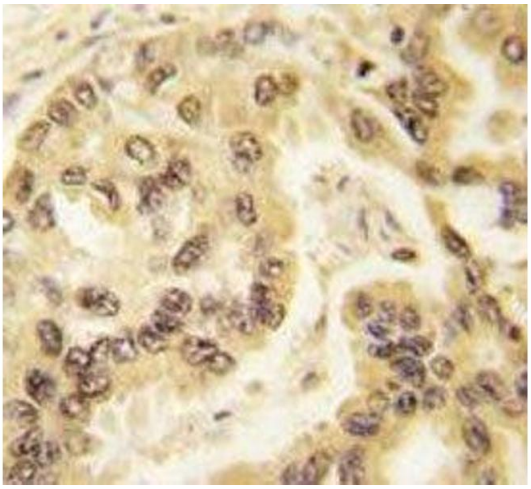
Immunofluorescence

Image 1. Fluorescent confocal image of U251 cell stained with p53 antibody at 1:25. p53 immunoreactivity is localized to the nucleus.



Immunofluorescence

Image 2. Fluorescent confocal image of U251 cell stained with p53 antibody at 1:25. p53 immunoreactivity is localized to the nucleus.



Immunohistochemistry

Image 3. IHC analysis of FFPE human lung carcinoma tissue stained with p53 antibody

Please check the product details page for more images. Overall 5 images are available for ABIN3029384.