Datasheet for ABIN390199

anti-p53 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	p53 (TP53)
Binding Specificity:	AA 354-385, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This p53 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 354-385 amino acids from the C-terminal region of human p53.
Clone:	RB07832
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

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.
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: 1:1000-1:2000. WB: 1:2000
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

Handling

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

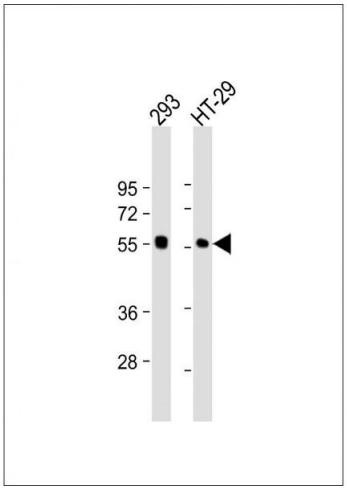
Product cited in:

Manu, Chai, Teh, Zhu, Casey, Wang: "Inhibition of Isoprenylcysteine Carboxylmethyltransferase Induces Cell-Cycle Arrest and Apoptosis through p21 and p21-Regulated BNIP3 Induction in Pancreatic Cancer." in: **Molecular cancer therapeutics**, Vol. 16, Issue 5, pp. 914-923, (2018) (PubMed).

Qiang, Sui, Ma, Li, Ren, Shao, Liu, Guan, Shi, Hou: "Proteasome inhibitor MG132 induces thyroid cancer cell apoptosis by modulating the activity of transcription factor FOXO3a." in: **Endocrine**, Vol. 56, Issue 1, pp. 98-108, (2017) (PubMed).

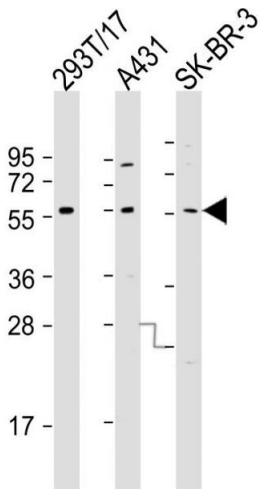
Huang, Wu, Mei, Wu: "XIAP inhibits autophagy via XIAP-Mdm2-p53 signalling." in: **The EMBO journal**, Vol. 32, Issue 16, pp. 2204-16, (2013) (PubMed).

Images



Western Blotting

Image 1. All lanes : Anti-p53 Antibody (C-term) at 1:2000 dilution Lane 1: 293 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.



Western Blotting

Image 2. All lanes : Anti-p53 Antibody (p53-) at 1:1000-1:2000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: SK-BR-3 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.