Datasheet for ABIN3020823

anti-p53 antibody (AA 1-110)

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Overview

Quantity:	100 µL
Target:	p53 (TP53)
Binding Specificity:	AA 1-110
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-110 of human p53 (NP_000537.3).
Sequence:	MEEPQSDPSV EPPLSQETFS DLWKLLPENN VLSPLPSQAM DDLMLSPDDI EQWFTEDPGP DEAPRMPEAA PPVAPAPAAP TPAAPAPAPS WPLSSSVPSQ KTYQGSYGFR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	p53 (TP53)
Alternative Name:	TP53 (TP53 Products)
Background:	This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277).,BCC7,LFS1,P53,TRP53,p53,TP53,BMFS5,Epigenetics & Nuclear Signaling,Transcription Factors,DNA Damage & Repair,Cancer,Tumor suppressors,p53 pathway,Signal Transduction,PI3K-Akt Signaling Pathway,ErbB-HER Signaling Pathway,MAPK-JNK Signaling Pathway,MAPK-P38 Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Mitochondrial Control of Apoptosis,Cell Cycle,Cell cycle inhibitors,G1/S Checkpoint,G2/M DNA Damage Checkpoint,Endocrine & Metabolism,AMPK Signaling Pathway,Warburg Effect,Neuroscience,Neurodegenerative Diseases,TP53
Molecular Weight:	23-43 kDa
Gene ID:	7157
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,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200,ChIP,1:50 - 1:100,IP,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

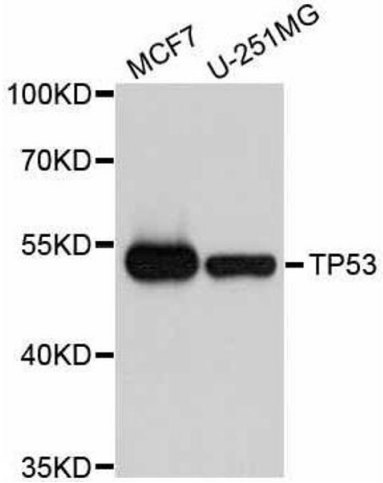
Product cited in:

Feng, Yu, Liu, Zhang, Cheng, Li, Tan, Luo, Jiang: "KAT5 silencing induces apoptosis of GBC-SD cells through p38MAPK-mediated upregulation of cleaved Casp9." in: **International journal of clinical and experimental pathology**, Vol. 7, Issue 1, pp. 80-91, (2014) (PubMed).

Zhu, Wang, Yang, Guo, Li, Wang, Wang, Huang, Wang, Yang, Ma, Bi: "Comparison of toxicity of benzene metabolite hydroquinone in hematopoietic stem cells derived from murine embryonic yolk sac and adult bone marrow." in: **PLoS ONE**, Vol. 8, Issue 8, pp. e71153, (2013) (PubMed).

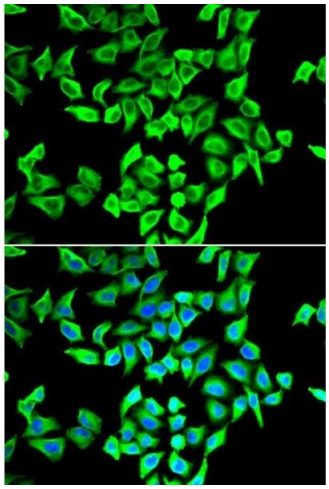
He, Zhang, Wang, Zhong, Shao, Zhu, Shen: "AURKA suppression induces DU145 apoptosis and sensitizes DU145 to docetaxel treatment." in: **American journal of translational research**, Vol. 5 , Issue 3, pp. 359-67, (2013) (PubMed).

Bao, Lu, Bin, Chang, Meng, Zhou, Guo, Zhao: "Systematic screen with kinases inhibitors reveals kinases play distinct roles in growth of osteoprogenitor cells." in: **International journal of clinical and experimental pathology**, Vol. 6, Issue 10, pp. 2082-91, (2013) (PubMed).



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using TP53 antibody.



Immunofluorescence

Image 2. Immunofluorescence analysis of A549 cells using TP53 antibody.