Datasheet for ABIN6136162

anti-p53 antibody (pSer46)

2 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	p53 (TP53)
Binding Specificity:	pSer46
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	A synthetic phosphorylated peptide around S46 of human p53 (NP_000537.3).
Sequence:	MLSPD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Phosphorylated Antibodies

Target Details

Target:	p53 (TP53)
Alternative Name:	TP53 (TP53 Products)
Background:	This gene encodes a tumor suppressor protein containing transcriptional activation, DNA

Target Details

	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,Protein phosphorylation,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,1:1000 - 1:2000,IP,1:50 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

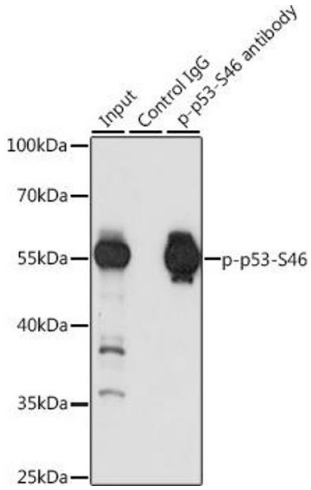
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

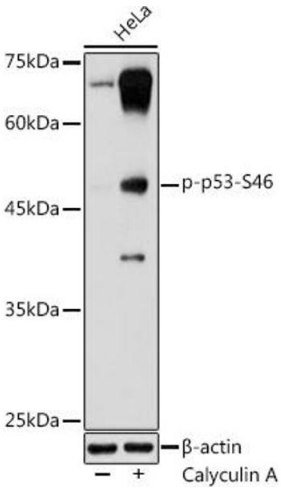
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunoprecipitation

Image 1. Immunoprecipitation analysis of 200 µg extracts of 293T cells, using 3 µg Phospho-p53-S46 pAb (ABIN6135270, ABIN6136162, ABIN6136163 and ABIN6225524). Western blot was performed from the immunoprecipitate using Phospho-p53-S46 pAb (ABIN6135270, ABIN6136162, ABIN6136163 and ABIN6225524) at a dilition of 1:1000. 293T cells were treated by UV at room temperature for 30 minutes after serum-starvation overnight, and then treated by 10 % FBS at 37 °C for 30 minutes.



Western Blotting

Image 2. Western blot analysis of extracts of HeLa cells, using Phospho-p53-S46 antibody (ABIN6135270, ABIN6136162, ABIN6136163 and ABIN6225524) at 1:1000 dilution.HeLa cells were treated by Calyculin A (100 nM) at 37 °C for 30 minutes after serum-starvation overnight.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 180s.