

Datasheet for ABIN677408

## anti-p53 antibody (AA 301-393)

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### Overview

Quantity:	100 µL
Target:	p53 (TP53)
Binding Specificity:	AA 301-393
Reactivity:	Human, Mouse, Rat, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human P53
Isotype:	IgG
Cross-Reactivity:	Goat, Human, Mouse, Rat
Predicted Reactivity:	Dog, Sheep, Pig, Horse, Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	p53 (TP53)
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## Target Details

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Alternative Name: [p53 \(TP53 Products\)](#)

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Background: Synonyms: P53, BCC7, LFS1, TRP53, Cellular tumor antigen p53, Antigen NY-CO-13, Phosphoprotein p53, Tumor suppressor p53, TP53

Background: Acts as a tumor suppressor in many tumor types, induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis, the function is largely independent of transcription. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkln1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seem to have to effect on cell-cycle regulation. Implicated in Notch signaling cross-over. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Isoform 2 enhances the transactivation activity of isoform 1 from some but not all TP53-inducible promoters. Isoform 4 suppresses transactivation activity and impairs growth suppression mediated by isoform 1. Isoform 7 inhibits isoform 1-mediated apoptosis.

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Gene ID: 7157

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UniProt: [P04637](#)

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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](#)

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## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
FCM 1:20-100  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200  
ICC 1:100-500

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## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

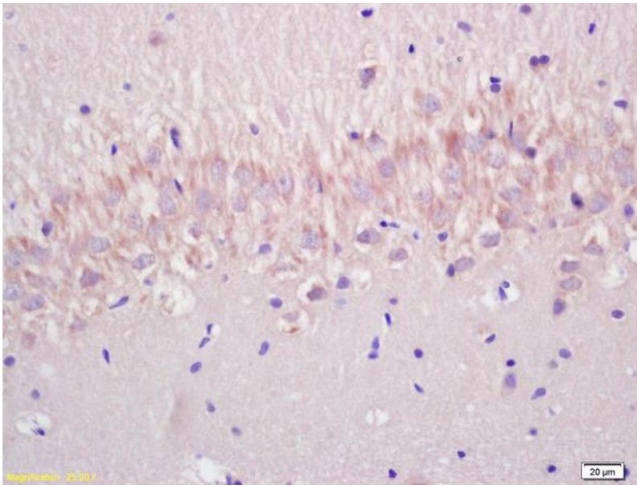
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Product cited in: Zhang, Zhang, Liu, Huang, Zhang, Yi, Yao, Hu: "Therapeutic efficacy of paclitaxel and carboplatin via arterial or venous perfusion in rabbits with VX-2 tongue cancer." in: **International journal of clinical and experimental medicine**, Vol. 8, Issue 4, pp. 4979-88, (2015) ([PubMed](#)).

Chen, Wang, Wang, Huang, Zhang: "STAT1 inhibits human hepatocellular carcinoma cell growth through induction of p53 and Fbxw7." in: **Cancer cell international**, Vol. 15, pp. 111, (2015) ([PubMed](#)).

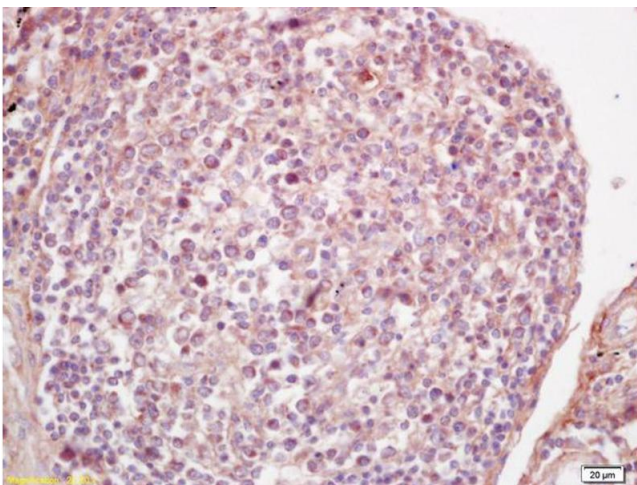
Yang, Hui, Yuqin, Jie, Shuai, Tiezhu, Wei: "Effect of saw palmetto extract on PI3K cell signaling transduction in human glioma." in: **Experimental and therapeutic medicine**, Vol. 8, Issue 2, pp. 563-566, (2014) ([PubMed](#)).

Yang, Gu, Zheng, Li, Lian, Miao, Jiang, Wei: "RPB5-mediating protein is required for the proliferation of hepatocellular carcinoma cells." in: **The Journal of biological chemistry**, Vol. 286, Issue 13, pp. 11865-74, (2011) ([PubMed](#)).



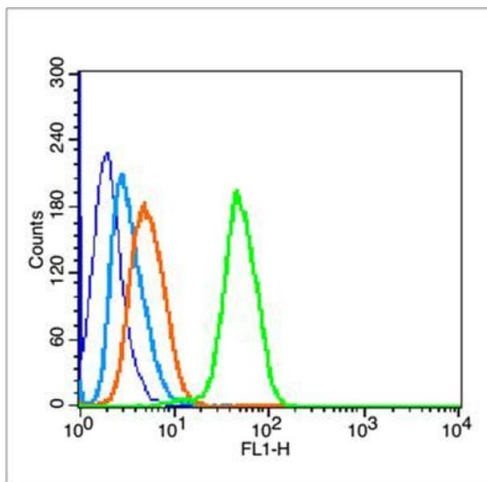
### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded rat brain labeled with Anti-P53(wt-p53) Polyclonal Antibody, Unconjugated (ABIN677408) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-P53(wt-p53) Polyclonal Antibody, Unconjugated (ABIN677408) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



**Image 3.** MCF7 cells were fixed with 70% ice-cold methanol overnight at 4°C, permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with P53(wt-p53) Polyclonal Antibody at 1:50 dilution in blocking buffer and incubated for 30 min at -20°C, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN677408.