

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
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), 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)
Alternative Name:	p53 (TP53 Products)

Target Details

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

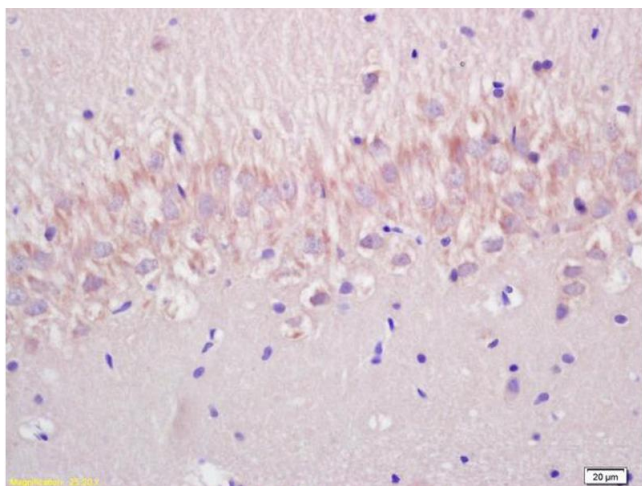
Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>FCM 1:20-100</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p> <p>ICC 1:100-500</p>
Restrictions:	For Research Use only

Handling

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

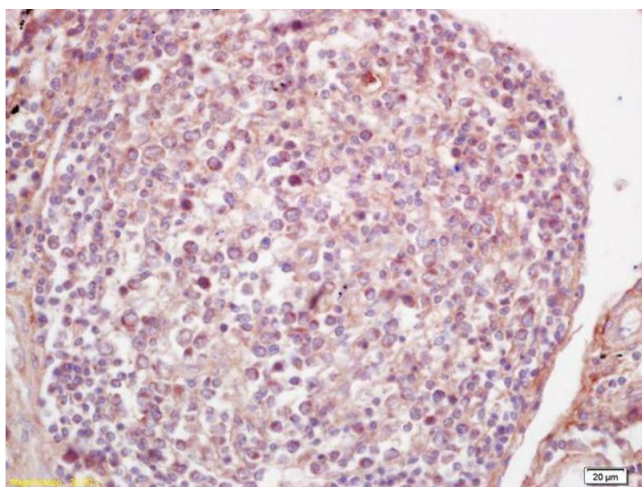
Publications

Product cited in:	<p>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).</p> <p>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).</p> <p>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).</p> <p>Yang, Gu, Zheng, Li, Lian, Miao, Jiang, Wei: "RBP5-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).</p>
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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.

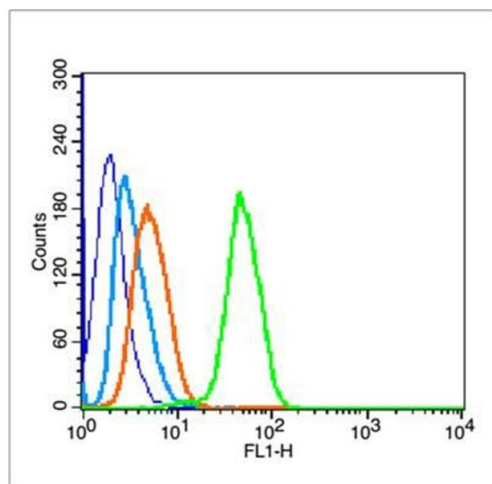


Image 3. MCF7 cells were fixed with 70% ice-cold methanol overnight at 4°C, permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with P53(wt-p53) Polyclonal Antibody at 1:50 dilution in 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.