

Datasheet for ABIN723935
anti-p53 antibody (AA 251-310)[4 Images](#)[6 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	p53 (TP53)
Binding Specificity:	AA 251-310
Reactivity:	Human, Mouse, Rat
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:	Human, Mouse, Rat
Predicted Reactivity:	Cow, Sheep, Pig, Horse, Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	p53 (TP53)
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Target Details

Alternative Name:	P53 proteinwt-p53 (TP53 Products)
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:	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

Application Details

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

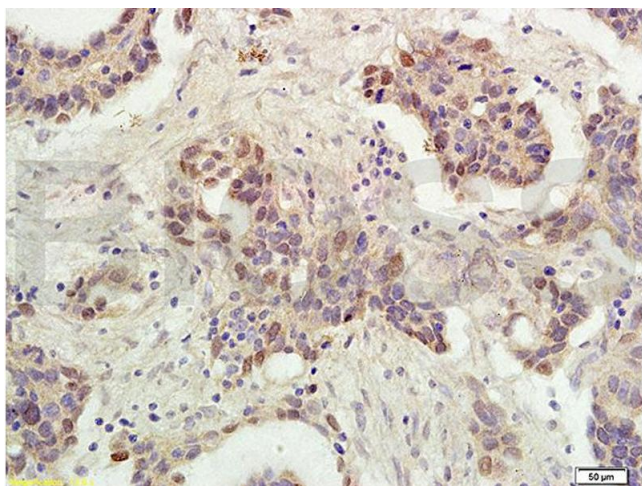
Product cited in: Uchiumi, Shoji, Sasaki, Sasaki, Sasaki, Oyama, Sugisawa, Tanuma: "Characterization of the 5'-flanking region of the human TP53 gene and its response to the natural compound, Resveratrol." in: **Journal of biochemistry**, Vol. 159, Issue 4, pp. 437-47, (2016) ([PubMed](#)).

Wang, Liu, Liu, Chen, Liu, Kuang: "Hypoxia Inhibits Myogenic Differentiation through p53 Protein-dependent Induction of Bhlhe40 Protein." in: **The Journal of biological chemistry**, Vol. 290, Issue 50, pp. 29707-16, (2015) ([PubMed](#)).

Hong, Shen, Liu, Li, Huang, Shi: "Developmental toxicity of three hexabromocyclododecane diastereoisomers in embryos of the marine medaka *Oryzias melastigma*." in: **Marine pollution bulletin**, Vol. 101, Issue 1, pp. 110-8, (2015) ([PubMed](#)).

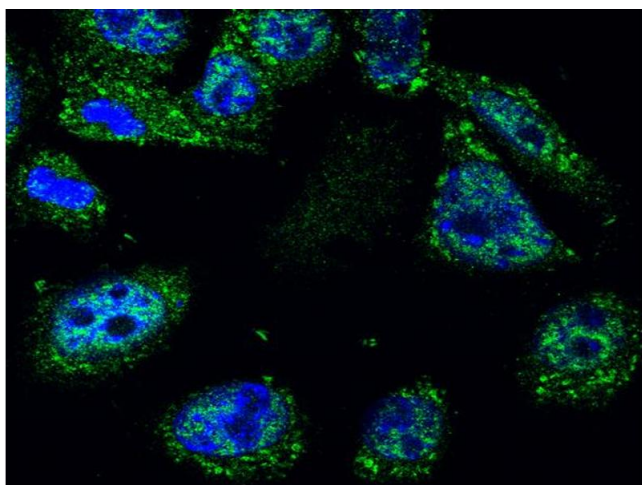
Chen, Shi, Liu, Fang, Zhang, Zhao: "Targeting SPARC by lentivirus-mediated RNA interference inhibits cervical cancer cell growth and metastasis." in: **BMC cancer**, Vol. 12, pp. 464, (2012) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



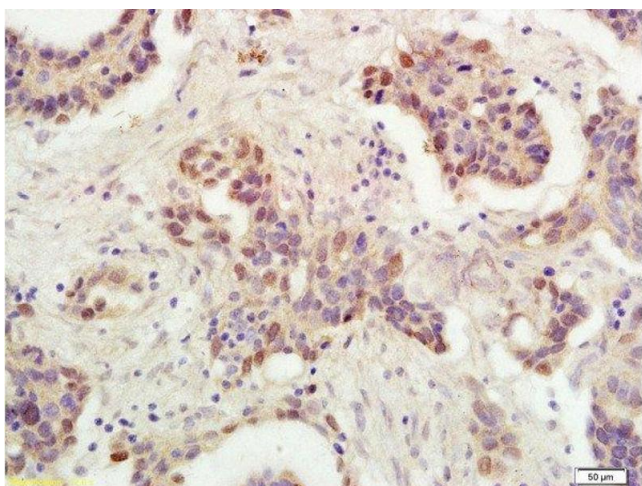
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human ovarian carcinoma labeled with Rabbit Anti-P53 protein(wt-p53) Polyclonal Antibody (ABIN723935), Unconjugated 1:300 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence

Image 2. Image kindly submitted by Piotr Mamczur from Wroclaw University. Immunofluorescent localization of p53 protein in mouse squamous cell cancer (KLN-205 cell line) with (ABIN723935) antibody (1:50) and FITC-labeled secondary antibodies (1:2000). The nuclei were stained with DAPI.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded human ovarian carcinoma labeled with Rabbit Anti-P53 protein(wt-p53) Polyclonal Antibody , Unconjugated 1:300 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN723935.