

Datasheet for ABIN729763

anti-p53 antibody (N235K, N239Y)

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Overview

Quantity:	100 µL
Target:	p53 (TP53)
Binding Specificity:	N235K, N239Y
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), 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 Mtp53 around N235K N239Y
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Purified by Protein A.

Target Details

Target:	p53 (TP53)
Abstract:	TP53 Products

Target Details

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.
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

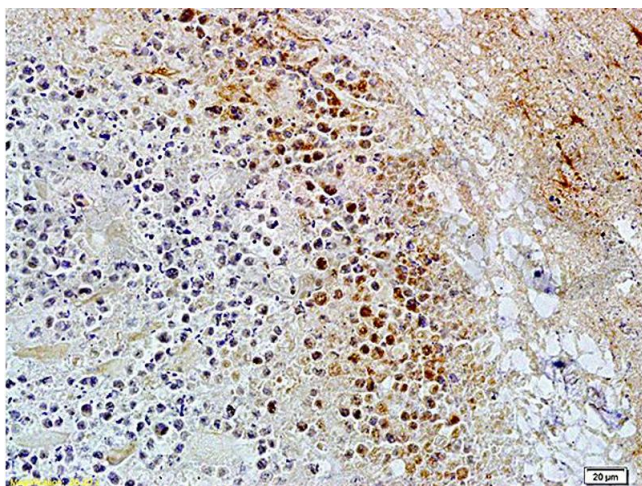
Application Notes:	ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

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

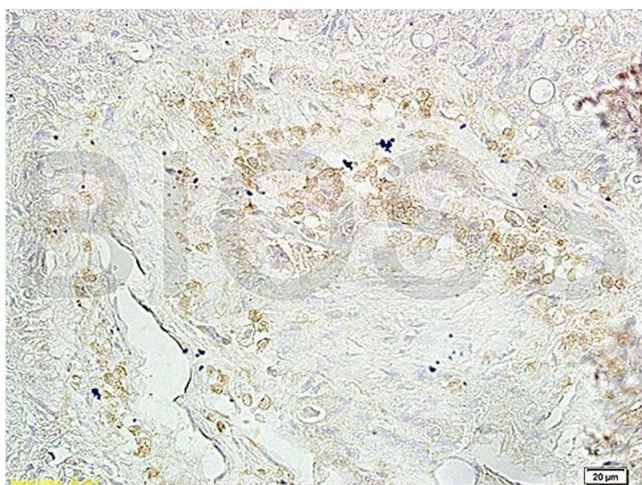
Publications

Product cited in:	Huang, Dong, Li, Zhang, Shan, Teng: "Differential expression patterns and clinical significance of estrogen receptor-α and β in papillary thyroid carcinoma." in: BMC cancer, Vol. 14, pp. 383, (2014) (PubMed). Zhao, Yao, Li, An, Chen, Sun, Kang, Wang, Hu: "Pokemon enhances proliferation, cell cycle progression and anti-apoptosis activity of colorectal cancer independently of p14(ARF)-MDM2-p53 pathway." in: Medical oncology (Northwood, London, England), Vol. 31, Issue 12, pp. 288, (2014) (PubMed). Zhang, Kuai, Ji, Li, Shi: "Over-Expression of Small Ubiquitin-Related Modifier-1 and Sumoylated p53 in Colon Cancer." in: Cell biochemistry and biophysics, (2013) (PubMed).
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Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse lymphoma tissue labeled with Anti-Mtp53(N235K N239Y) Polyclonal Antibody, Unconjugated (ABIN729763) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human ovary carcinoma with labeled Anti-Mtp53(N235K N239Y) Polyclonal Antibody, Unconjugated (ABIN729763) at 1:200, followed by conjugation to the secondary antibody and DAB staining

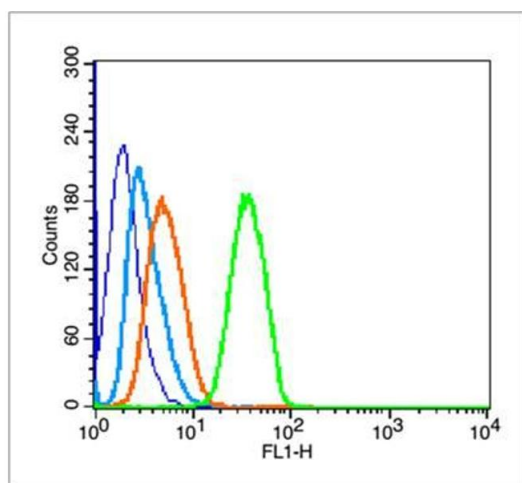


Image 3. MCF-7 cells probed with Mtp53 (N235K N239Y) Polyclonal Antibody, unconjugated at 1:100 dilution for 30 minutes compared to control cells (blue) and isotype control (orange)