

Datasheet for ABIN5706811 anti-p53 antibody (acLys305)

2 Images



Overview

Quantity:	100 μg
Target:	p53 (TP53)
Binding Specificity:	acLys305
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Dot Blot (DB)

Product Details

Purpose:	p53 K305 Ac Antibody
Immunogen:	Immunogen: Anti-p53 K305 Ac antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic acetylated peptide surrounding Lysine 305 of human p53. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	Anti-p53 K305 Ac antibody is directed against human p53 protein.
Characteristics:	Synonyms: rabbit anti-p53 Ac-Lys305 antibody, rabbit anti-p53 K305ac antibody, cellular tumor antigen p53, tumor suppressor p53, phosphoprotein p53, Antigen NY-CO-13, TP53
Purification:	p53 K305 Ac Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography.

Product Details Sterile filtered Sterility: **Target Details** Target: p53 (TP53) Alternative Name: TP53 (TP53 Products) Background: Background: TP53 (tumor suppressor gene p53) is one of the most well-studied genes that suppresses tumor formation and renders protection against DNA damage by inducing cell cycle arrest, DNA repair, or apoptosis. TP53 signaling is triggered through numerous cellular events ranging from DNA damage to hypoxia, stress and a plethora of other causes. Upon activation, p53 acts as zinc-containing transcriptional regulator and initiates a cascade of events that determines the cellular outcome including cell cycle arrest, apoptosis, senescence, DNA repair, development, differentiation and tissue homeostasis. Cell cycle arrest is induced by p53 via trans-activating genes such as p21 (CDK-inhibitor 1, cyclin dependent kinase) and others. Interestingly, p53 itself is capable of triggering cellular responses (survival or induced cell death) as well. Mutations or deletions in the TP53 gene are present in nearly 50 % of human cancers, and primarily results in impaired tumor suppressor function. Anti-p53 (ac Lys305) antibody is ideal for researchers interested in developmental biology, cell growth and cancer research. Gene ID: 7157 NCBI Accession: NP_000537 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:

Application Note: p53 K305 Ac Antibody has been tested by dot blot and western blotting and is suitable for ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~43.6 kDa in size corresponding to p53 by western blotting in the appropriate cell lysate or extract.

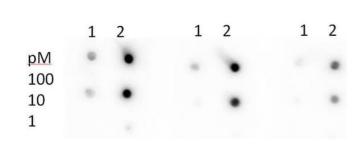
Western Blot Dilution: 1:1000 ELISA Dilution: 1:5000 - 1:10000

Application Details

Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Images

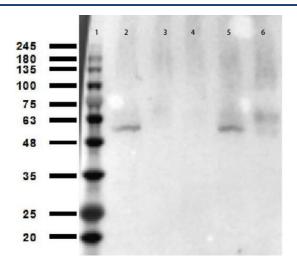
Expiry Date:



12 months

Dot Blot

Image 1. Dot Blot of Rabbit Anti-p53 305KAc Antibody. Lane 1: Unmodified p53 peptide. Lane 2: 305KAc p53 peptide. Loaded: 100, 10, 1 picomoles of peptide. Primary Antibody: Left Membrane: 1.0 μg/mL of purified antibody, Middle Membrane: 0.5 μg/mL, Right Membrane: 0.25 μg/mL. Blocking: BLOTTO Blocking Buffer (p/n B501-0500) for 30 min at RT. Secondary Antibody: Gt-A-Rb IgG HRP (p/n 611-103-122) at 1:40,000.



Western Blotting

Image 2. Western Blot of RABBIT Anti-p53 (ac Lys305) Antibody. Lane 1: Ladder Opal PreStained (p/n MB-210-0500). Lane 2: MCF-7 (p/n W09-000-360). Lane 3: MCF-7 Nuclear Extract (p/n W09-001-A85). Lane 4: Jurkat Lysate (p/n W09-001-370). Lane 5: HeLa Whole Cell Lysate (p/n W09-000-364). Lane 6: A431 Whole Cell Lysate (p/n W09-000-361). Loaded at 10 μg. Blocking: BlockOut Buffer (p/n MB-073) for 30 min at RT. Primary Antibody: Rb anti-p53 K305 Ac at 1 μg/mL for 4 °C overnight. Secondary Antibody: Gt-a-Rb HRP (p/n 611-103-122) at 1:70,000 in MB-073 for 30 min at RT. Expected: ~53 kDa.