

Datasheet for ABIN5706810
anti-p53 antibody (acLys292)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	p53 (TP53)
Binding Specificity:	acLys292
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 K292 Ac Antibody
Immunogen:	Immunogen: Anti-p53 K292 Ac antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic acetylated peptide surrounding Lysine 292 of human p53. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	Anti-p53 K292 Ac antibody is directed against human p53 protein.
Characteristics:	Synonyms: rabbit anti-p53 Ac-Lys292 antibody, rabbit anti-p53 K292ac antibody, cellular tumor antigen p53, tumor suppressor p53, phosphoprotein p53, Antigen NY-CO-13, TP53
Purification:	p53 K292 Ac Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography.

Product Details

Sterility: Sterile filtered

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 Lys292) 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 K292 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: User Optimized

Other: User Optimized

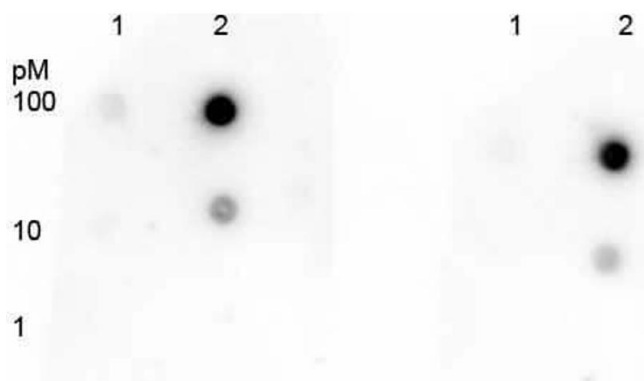
Application Details

Restrictions: For Research Use only

Handling

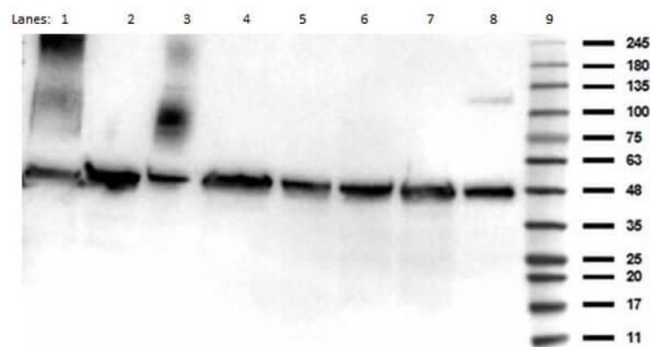
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should 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.
Expiry Date:	12 months

Images



Dot Blot

Image 1. Dot Blot of Rabbit Anti-p53 [ac Lys292] Antibody. Lane 1: Unmodified peptide. Lane 2: p53 k292-ac peptide. Load: 100, 10 and 1 picomoles of peptide. Primary antibody: Histone p53 K292-ac antibody at 1:1000 and 1:500 for 1 hr at 4 °C. Secondary antibody: Dylight™488 rabbit secondary antibody (p/n 611-141-122) at 1:10,000 for 30 min at RT. Block: 5 % BLOTTO (p/n B501-0500) overnight at 4 °C.



Western Blotting

Image 2. Western Blot of Anti-p53 (ac Lys292) (RABBIT) Antibody. Lane 1: HCT-116 Whole Cell Lysate (p/n W09-001-GM4). Lane 2: A549 WCL (p/n W09-001-372). Lane 3: C5B46 Brain Lysate. Lane 4: MCF7 Nuclear Extract Lysate (p/n W09-000-360). Lane 5: A431 Nuclear Extract Lysate (p/n W09-000-361). Lane 6: HeLa WCL (p/n W09-000-364). Lane 7: HeLa Nuclear Extract Lysate (p/n W09-001-367). Lane 8: Normal Ms Brain Lysate (p/n W10-001-T004). Lane 9: Molecular Weight Ladder PreStained (p/n MB-210-0500). Loaded at 10 µg. Primary Antibody: Anti-p53 292kAc at 1 µg/mL overnight at 4 °C. Secondary Antibody: Goat anti-Rabbit HRP (p/n 611-103-122) at 1:70,000 for 30 min at RT. Blocking buffer: BlockOut Universal Buffer (p/n MB-073). Predicted: ~43.6 kDa.