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Datasheet for 600-401-GV1

p53 K292 Ac Antibody

Overview

Description:	Anti-p53 (ac Lys292) (RABBIT) Antibody - 600-401-GV1
Item No.:	600-401-GV1
Size:	100 µg
Applications:	Dot Blot, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TP53
Reactivity:	Human

PTM Specificity:	Acetylation
Immunogen Type:	Conjugated Peptide
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.
Purity/Specificity:	Anti-p53 K292 Ac antibody is directed against human p53 protein. p53 K292 Ac Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis used to suggest reactivity with this protein from human based on 100% homology for the immunizing sequence.
Relevant Links:	• UniProtKB - P04637 • NCBI - NP_000537.3 • GeneID - 7157

Application Details

Tested Applications:	Dot Blot, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
WB:	1:1000

Formulation

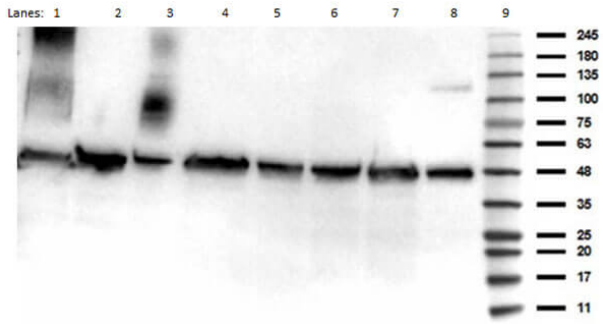
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

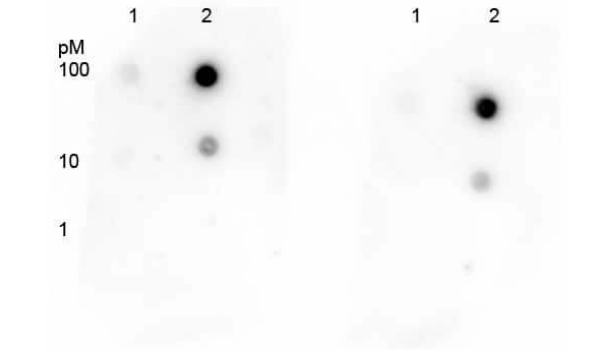
Shipping Condition:	Dry Ice

Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
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 10ug. Primary Antibody: Anti-p53 292kAc at 1µg/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.



Dot Blot
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.

Disclaimer

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