

**Datasheet for 600-401-GV1****p53 K292 Ac Antibody****Overview**

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

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | 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. |
| <b>Synonyms:</b>     | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Target Details**

|                    |       |
|--------------------|-------|
| <b>Gene Name:</b>  | TP53  |
| <b>Reactivity:</b> | Human |

|                            |                                                                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PTM Specificity:</b>    | Acetylation                                                                                                                                                                                                                                                                                            |
| <b>Immunogen Type:</b>     | Conjugated Peptide                                                                                                                                                                                                                                                                                     |
| <b>Immunogen:</b>          | 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.                                                                                                                             |
| <b>Purity/Specificity:</b> | 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. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P04637</a></li><li>• <a href="#">NCBI - NP_000537.3</a></li><li>• <a href="#">GeneID - 7157</a></li></ul>                                                                                                                              |

## Application Details

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

## Formulation

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

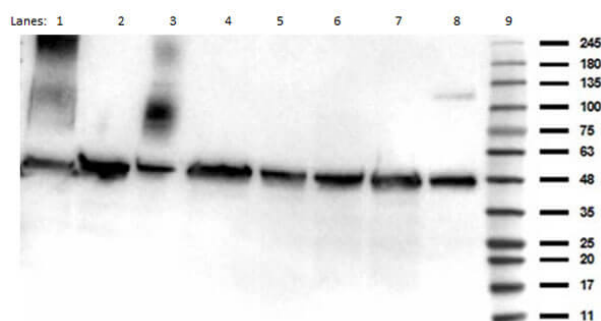
## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | 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.

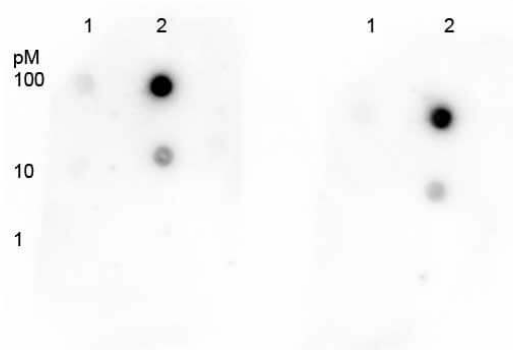
**Expiration:** Expiration date is one (1) year from date of receipt.

## 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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.