

**Datasheet for 600-401-E04****p53 phospho S392 Antibody****Overview**

|                      |  |
|----------------------|--|
| <b>Description:</b>  | Anti-p53 pS392 (RABBIT) Antibody - 600-401-E04 |
| <b>Item No.:</b>     | 600-401-E04                                    |
| <b>Size:</b>         | 100 µL   |
| <b>Applications:</b> | WB   |
| <b>Reactivity:</b>   | Rat  |
| <b>Host Species:</b> | Rabbit   |

**Product Details**

|                      |  |
|----------------------|--|
| <b>Background:</b>   | p53 pS392 Antibody detects phosphorylated p53. p53 has a well established role in blocking the proliferative action of damaged cells and acting in essence as an anticancer agent. It has been called the guardian of the genome. Phosphorylation of Ser392 in p53 is associated with formation of human tumors. In addition, p53 has been linked to effects of aging and oxidative stress. An increase in p53 has also been linked to deficits in LTP and learning and memory. Anti-p53 pS392 Antibody is ideal for investigators involved in Transcription Factor, Cell Cycle, Apoptosis, and Cancer research. |
| <b>Synonyms:</b>     | Cellular tumor antigen p53, Antigen NY-CO-13, Phosphoprotein p53, Tumor suppressor p53   |
| <b>Host Species:</b> | Rabbit   |
| <b>Clonality:</b>    | Polyclonal   |
| <b>Format:</b>       | IgG  |

**Target Details**

|                         |  |
|-------------------------|--|
| <b>Gene Name:</b>       | TP53   |
| <b>Reactivity:</b>      | Rat  |
| <b>PTM Specificity:</b> | Phosphorylation  |
| <b>Immunogen Type:</b>  | Conjugated Peptide   |
| <b>Immunogen:</b>       | Anti-p53 pS392 Antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Ser392. |

**Purity/Specificity:** Anti-p53 pS392 antibody is directed against p53 phosphorylated at S392. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. The immunolabeling is completely eliminated by lambda-phosphatase treatment. Reactivity is expected the following species based on 100% sequence homology: human and rat. Cross reactivity with p53 from other species has not been determined

**Relevant Links:**

- [UniProtKB - P04637](#)
- [GeneID - 7157](#)
- [NCBI - BAC16799.1](#)

## Application Details

**Tested Applications:** WB

**Application Note:** Anti-p53 pS392 Antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 53 kDa in size corresponding to p53 protein phosphorylated at Ser392 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.

**WB:** 1:1000

## Formulation

**Physical State:** Liquid

**Concentration:** titrated reagent Sufficient to run approximately 10 miniblots

**Buffer:** 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5

**Stabilizer:** 0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

## Shipping & Handling

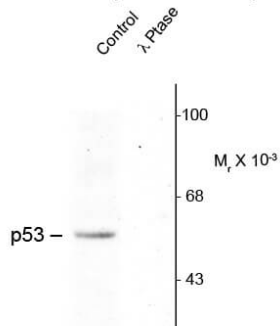
**Shipping Condition:** Dry Ice

**Storage Condition:** Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

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

## Images

### Anti-Phospho-Ser<sup>392</sup> p53



Western blot of rat brain fraction lysate showing phosphospecific immunolabeling of the ~53k p53 protein phosphorylated at Ser<sup>392</sup>.

### Western Blot

Western Blot of Rabbit anti-p53 pS392 antibody. Lane 1: rat brain nuclear fraction lysate (control). Lane 2:  $\lambda$ -Ptase. Load: 10  $\mu$ g per lane. Primary antibody: p53 pS392 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 53 kDa for p53 pS392. Other band (s): none.

## 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.