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Datasheet for 600-401-E04

p53 phospho S392 Antibody

Overview

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

Product Details

Background:	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.
Synonyms:	Cellular tumor antigen p53, Antigen NY-CO-13, Phosphoprotein p53, Tumor suppressor p53
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TP53
Reactivity:	Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	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

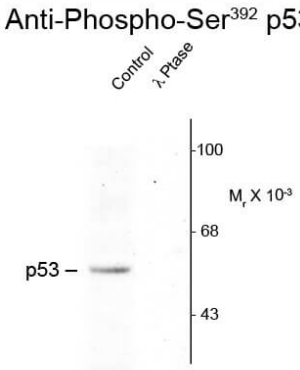
Formulation

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



Western blot of rat brain fraction lysate showing phosphospecific immunolabeling of the ~53k p53 protein phosphorylated at Ser^{392}.

Western Blot
Western Blot of Rabbit anti-p53 pS392 antibody. Lane 1: rat brain nuclear fraction lysate (control). Lane 2: λ-Ptase. Load: 10 µg 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.

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