



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-P53 Antibody

Rabbit Anti-Human p53 Polyclonal  
Catalog No. SPC-682



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

p53 Antibody

### Description

Rabbit Anti-Human p53 Polyclonal

### Species Reactivity

Human

### Applications

WB, ICC/IF

### Antibody Dilution

WB (1:1000); ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

### Host Species

Rabbit

### Immunogen Species

Human

### Immunogen

Synthetic peptide from the C-terminal of human tumor protein p53.

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Peptide Affinity Purified

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### Clonality

Polyclonal

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### Specificity

Predicted molecular weight at ~43.7kDa. Observed bands at ~53kDa.

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### Cite This Product

Rabbit Anti-Human p53 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-682)

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### Certificate Of Analysis

A 1:1000 dilution of SPC-682 was sufficient for detection of p53 on HeLa cell lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

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## Biological Description

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### Alternative Names

TP53 Antibody, Tumor Protein 53 Antibody, BCC7 Antibody, LFS1 Antibody, TRP53 Antibody, p53 tumor suppressor Antibody

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### Research Areas

Cancer, Apoptosis

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### Cellular Localization

Cytoplasm, Endoplasmic Reticulum, Mitochondrion Matrix, Nucleus, PML body

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### Accession Number

NP\_000537.3

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### Gene ID

7157

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### Swiss Prot

P04637

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### Scientific Background

The p53 protein (tumor protein 53 or TP53) is a DNA-binding cell cycle-regulating transcription factor that governs cell division and the fine balance between cell death and cell survival (1). P53 plays a critical role in tumor suppression and hence it is often described as "the guardian of the genome", "the guardian angel gene", or the "master watchman." This also refers to its role in conserving stability by preventing genome mutation (2). Defects in p53 are linked to >50% of human cancers, and restoring p53 function to these cancer cells can induce growth arrest and apoptosis (3). When p53 has been damaged, it can also lead to autoimmune disorders (4, 5).

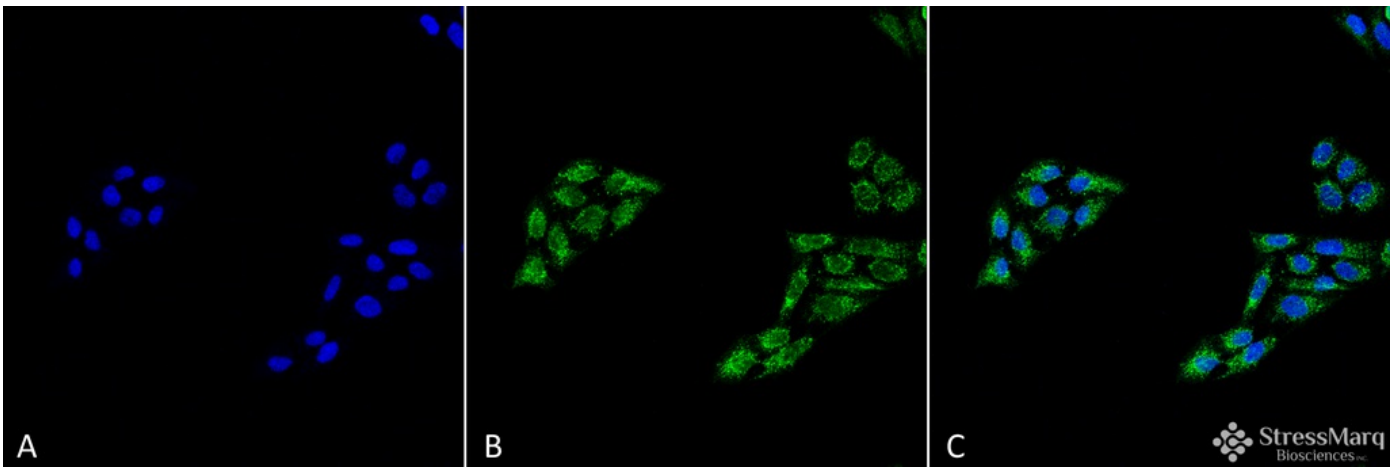
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### References

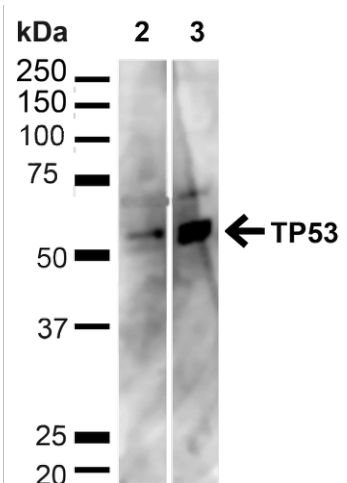
1. Georescu C.V., Saftoiu A., Georgescu C.C., Ciurea R. and Ciurea T. (2007) J Gastrointestin Liver Dis. 16(2): 133-9.
  2. Strachan T., et al. (1999) Human Molecular Genetics 2. Ch. 18: Cancer Genetics.
  3. Hansen J.E., et al. (2007) Cancer Research 67: 1769-1774.
  4. Di Cesare E., et al. (2001) Ann Clin Lab Sci 31: 253-8.
  5. Akere A., Otegbayo J.A. (2007) Singapore Med J. 48(1): 41-4.
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## Product Images

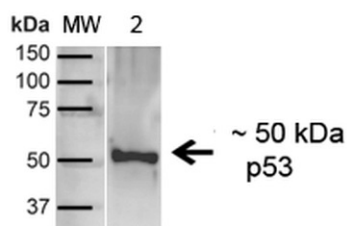
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Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-p53 Polyclonal Antibody (SPC-682). Tissue: Cervical Cancer cell line (HeLa). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-p53 Polyclonal Antibody (SPC-682) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: DAPI (blue) nuclear stain at 1:5000 for 5 min RT. Localization: Cytoplasm, PML body, Endoplasmic Reticulum. Magnification: 40X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) p53 Antibody (D) Composite.



Western blot analysis of Human HeLa\_293T showing detection of ~43.7kDa p53 protein using Rabbit Anti-p53 Polyclonal Antibody (SPC-682). Lane 1: MW Ladder. Lane 2: Human HeLa (20 µg). Lane 3: Human 293T (20 µg). Load: 20 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-p53 Polyclonal Antibody (SPC-682) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~43.7kDa.



Western blot analysis of Human A431 showing detection of ~43.7kDa p53 protein using Rabbit Anti-p53 Polyclonal Antibody (SPC-682). Lane 1: MW Ladder. Lane 2: Human A431 (20 µg). Load: 20 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-p53 Polyclonal Antibody (SPC-682) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~43.7kDa.

## Product Citations (0)

Currently there are no citations for this product.

## Reviews

There are no reviews yet.