

Datasheet for ABIN1882106  
**anti-p53 antibody (AA 364-393)**



[Go to Product page](#)

3 Images

5 Publications

## Overview

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Quantity:            | 400 µL                                                                             |
| Target:              | p53 (TP53)                                                                         |
| Binding Specificity: | AA 364-393                                                                         |
| Reactivity:          | Human                                                                              |
| Host:                | Rabbit                                                                             |
| Clonality:           | Polyclonal                                                                         |
| Conjugate:           | This p53 antibody is un-conjugated                                                 |
| Application:         | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|               |                                                                                                                                           |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:    | This p53 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 364-393 amino acids from human p53. |
| Clone:        | RB2571                                                                                                                                    |
| Isotype:      | Ig Fraction                                                                                                                               |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.                             |

## Target Details

|                   |                                       |
|-------------------|---------------------------------------|
| Target:           | p53 (TP53)                            |
| Alternative Name: | p53 ( <a href="#">TP53 Products</a> ) |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background:       | Tumor protein p53, a nuclear protein, plays an essential role in the regulation of cell cycle, specifically in the transition from G0 to G1. It is found in very low levels in normal cells, however, in a variety of transformed cell lines, it is expressed in high amounts, and believed to contribute to transformation and malignancy. P53 is subject to modification by conjugation of SUMO-1. A p53 mutant deficient for MDM2 binding is poorly sumoylated in vivo compared to wild-type p53. Overexpression of MDM2 increases the level of p53 sumoylation, which is further stimulated by expression of ARF. These results show that p53 sumoylation is regulated by MDM2- and ARF-mediated nucleolar targeting. |
| Molecular Weight: | 43653                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| NCBI Accession:   | <a href="#">NP_000537</a> , <a href="#">NP_001119584</a> , <a href="#">NP_001119585</a> , <a href="#">NP_001119586</a> , <a href="#">NP_001119587</a> , <a href="#">NP_001119588</a> , <a href="#">NP_001119589</a> , <a href="#">NP_001119590</a> , <a href="#">NP_001263624</a> , <a href="#">NP_001263625</a> , <a href="#">NP_001263626</a> , <a href="#">NP_001263627</a> , <a href="#">NP_001263628</a> , <a href="#">NP_00126</a>                                                                                                                                                                                                                                                                                  |
| UniProt:          | <a href="#">P04637</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pathways:         | <a href="#">p53 Signaling</a> , <a href="#">MAPK Signaling</a> , <a href="#">PI3K-Akt Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">AMPK Signaling</a> , <a href="#">Chromatin Binding</a> , <a href="#">ER-Nucleus Signaling</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Hepatitis C</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Autophagy</a> , <a href="#">Warburg Effect</a>                                                                                                                                                                                                                                                                     |

## Application Details

|                    |                                      |
|--------------------|--------------------------------------|
| Application Notes: | WB: 1:1000. WB: 1:2000. IHC-P: 1:100 |
| Restrictions:      | For Research Use only                |

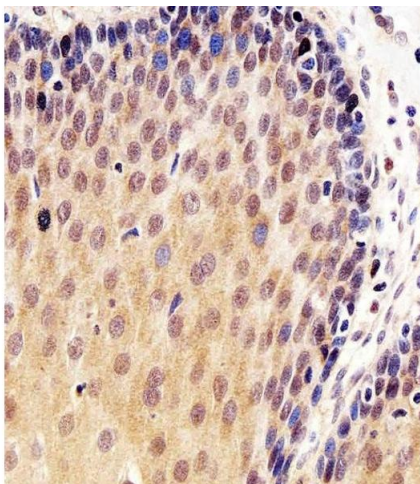
## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Buffer:            | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.                                           |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C, -20 °C                                                                                                           |
| Expiry Date:       | 6 months                                                                                                               |

## Publications

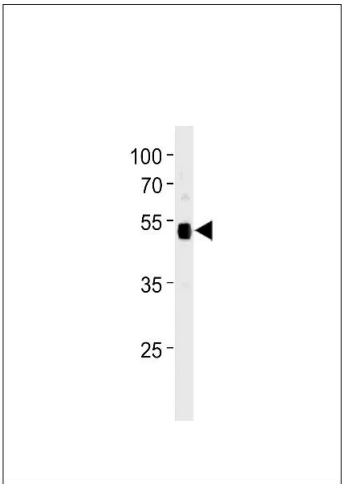
- Product cited in: Chen, Chen: "MDM2-ARF complex regulates p53 sumoylation." in: **Oncogene**, Vol. 22, Issue 34, pp. 5348-57, (2003) ([PubMed](#)).
- Melchior, Hengst: "SUMO-1 and p53." in: **Cell cycle (Georgetown, Tex.)**, Vol. 1, Issue 4, pp. 245-9, (2002) ([PubMed](#)).
- Muller, Berger, Lehembre, Seeler, Haupt, Dejean: "c-Jun and p53 activity is modulated by SUMO-1 modification." in: **The Journal of biological chemistry**, Vol. 275, Issue 18, pp. 13321-9, (2000) ([PubMed](#)).
- Gostissa, Hengstermann, Fogal, Sandy, Schwarz, Scheffner, Del Sal: "Activation of p53 by conjugation to the ubiquitin-like protein SUMO-1." in: **The EMBO journal**, Vol. 18, Issue 22, pp. 6462-71, (2000) ([PubMed](#)).
- Rodriguez, Desterro, Lain, Midgley, Lane, Hay: "SUMO-1 modification activates the transcriptional response of p53." in: **The EMBO journal**, Vol. 18, Issue 22, pp. 6455-61, (2000) ([PubMed](#)).

## Images



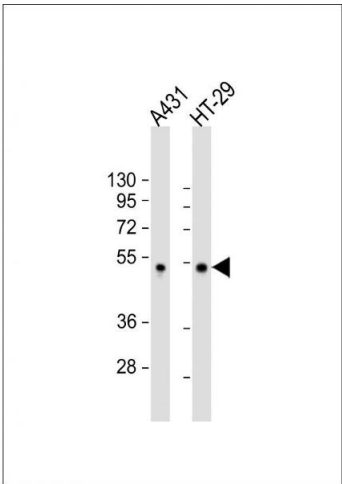
### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemical analysis of paraffin-embedded H. esophagus section using p53 Antibody (Sumoylation Site Specific) (ABIN1882106 and ABIN2850436). (ABIN1882106 and ABIN2850436) was diluted at 1:100 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



**Western Blotting**

**Image 2.** TP53 Antibody (C-term) (ABIN1882106 and ABIN2850436) western blot analysis in 293 cell line lysates (35 µg/lane). This demonstrates the TP53 antibody detected the TP53 protein (arrow).



**Western Blotting**

**Image 3.** All lanes : Anti-Sumo-site Antibody (p53) at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: HT-29 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.