

## Rabbit anti-Human p53 Polyclonal Antibody | anti-p53 antibody

Rabbit Anti-Human p53 Polyclonal

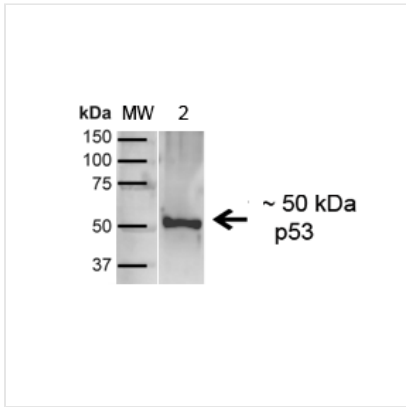
|                               |                       |                            |                                     |
|-------------------------------|-----------------------|----------------------------|-------------------------------------|
| CATALOG #<br><b>AAA103826</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|-------------------------------------|

### PRODUCT SYNONYMS

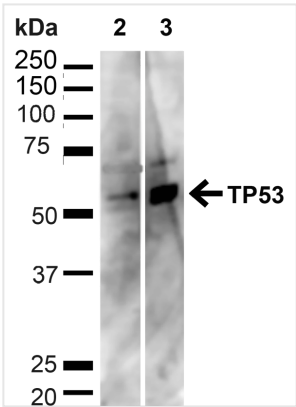
p53; Polyclonal Antibody; Rabbit Anti-Human p53 Polyclonal; TP53 Antibody; Tumor Protein 53 Antibody; BCC7 Antibody; LFS1 Antibody; TRP53 Antibody; p53 tumor suppressor Antibody; p53 Antibody; anti-p53 antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                               |
| Reactivity                                    | Human                                                                                                                                |
| Clonality                                     | Polyclonal                                                                                                                           |
| Purity/Purification                           | Peptide Affinity Purified                                                                                                            |
| Concentration                                 | 1 mg/ml (varies by lot)                                                                                                              |
| Sequence Length                               | 393                                                                                                                                  |
| Applicable Applications for anti-p53 antibody | WB (Western Blot)                                                                                                                    |
| Immunogen                                     | Synthetic peptide from the C-terminal of human tumor protein p53.                                                                    |
| Immunogen Species                             | Human                                                                                                                                |
| COA                                           | A 1:1000 dilution was sufficient for detection of p53 on HeLa cell lysates using Goat anti-rabbit IgG:HRP as the secondary antibody. |
| Storage Buffer                                | PBS, 50% glycerol, 0.09% sodium azide                                                                                                |
| Conjugate                                     | Unconjugated                                                                                                                         |
| Cellular Localization                         | Cytoplasm, Nucleus, PML body, Endoplasmic Reticulum, Mitochondrion matrix                                                            |
| Preparation and Storage                       | Store at -20 degree C                                                                                                                |



**WB (Western Blot)**  
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 ug). Load: 20 ug. 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.



**WB (Western Blot)**  
Western blot analysis of Human HeLa and HEK293T cell lysates showing detection of ~43.7kDa p53 protein using Rabbit Anti-p53 Polyclonal Antibody (SPC-682). Lane 1: MW Ladder. Lane 2: Human HeLa (20 ug). Lane 3: Human 293T (20 ug). Load: 20 ug. 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.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-p53 antibody | 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). |
| Product Categories/Family for anti-p53 antibody   | Cancer; Apoptosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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.                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 120407068                                                                                      |
| NCBI GeneID                      | 7157                                                                                           |
| NCBI Accession #                 | NP_000537.3                                                                                    |
| NCBI GenBank Nucleotide #        | NM_000546.5                                                                                    |
| UniProt Accession #              | P04637; Q15086; Q15087; Q15088; Q16535; Q16807; Q16808; Q16809; Q16810; Q16811; Q16848; Q2XN98 |
| Molecular Weight                 | Predicted molecular weight at ~43.7kDa. Observed bands at ~53kDa.                              |
| NCBI Official Full Name          | cellular tumor antigen p53 isoform a                                                           |
| NCBI Official Synonym Full Names | tumor protein p53                                                                              |
| NCBI Official Symbol             | TP53                                                                                           |
| NCBI Official Synonym Symbols    | P53; BCC7; LFS1; TRP53                                                                         |
| NCBI Protein Information         | cellular tumor antigen p53                                                                     |

|                            |                            |
|----------------------------|----------------------------|
| UniProt Protein Name       | Cellular tumor antigen p53 |
| UniProt Gene Name          | <b>TP53</b>                |
| UniProt Synonym Gene Names | P53                        |
| UniProt Entry Name         | P53_HUMAN                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/p53-antibody-western-blot-elisa/103826>