

# p53 Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID P04637

Catalog No. A300-247A

GeneID 7157

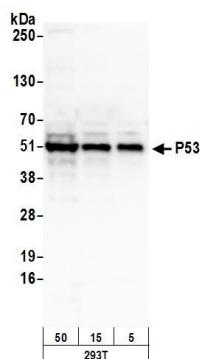
Lot No. A300-247A-2



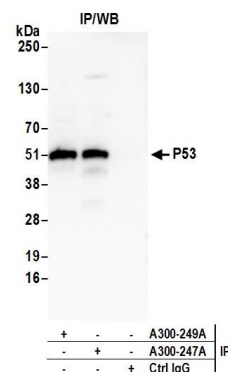
<b>APPLICATIONS</b>	WB, IP, IHC, ChIP-Seq, F										
<b>SPECIES REACTIVITY</b>	Human										
<b>AMOUNT</b>	100 µl										
<b>CONCENTRATION</b>	1000 µg/ml										
<b>STORAGE/SHELF LIFE</b>	2 – 8° C / 1 year from date of receipt										
<b>PHYSICAL STATE</b>	Liquid										
<b>BUFFER</b>	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide										
<b>ISOTYPE</b>	IgG										
<b>ORIGIN</b>	USA										
<b>PRODUCTION PROCEDURES</b>	<p>Antibody was affinity purified using an epitope specific to p53 immobilized on solid support.</p> <p>The epitope recognized by A300-247A maps to a region between residues 50 and 100 of human tumor protein p53 using the numbering given in SwissProt entry P04637 (GeneID 7157).</p> <p>Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.</p>										
<b>APPLICATIONS</b>	<p>Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.</p> <table><tr><td>Western Blot</td><td>1:2,000 – 1:10,000</td></tr><tr><td>Immunoprecipitation</td><td>2 – 5 µg/mg lysate</td></tr><tr><td>Immunohistochemistry</td><td>1:1,000 – 1:5,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.</td></tr><tr><td>ChIP-Seq</td><td>4 µg/30 µg chromatin</td></tr><tr><td>Flow Cytometry</td><td>1.5 µg per 1 X 10<sup>6</sup> cells in a 150 µl volume</td></tr></table>	Western Blot	1:2,000 – 1:10,000	Immunoprecipitation	2 – 5 µg/mg lysate	Immunohistochemistry	1:1,000 – 1:5,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.	ChIP-Seq	4 µg/30 µg chromatin	Flow Cytometry	1.5 µg per 1 X 10 <sup>6</sup> cells in a 150 µl volume
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<b>APPLICATION NOTES</b>	<p>Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-20% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).</p> <p>Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE.</p>										
<b>IHC HUMAN CONTROLS</b>	Skin Squamous Cell Carcinoma										
<b>ADDITIONAL INFO</b>	<p><a href="https://www.bethyl.com/product/A300-247A">https://www.bethyl.com/product/A300-247A</a></p> <p>Use the link above to view SDS, a current list of citations, and other product specific information.</p> <p>IP-western blot protocol: <a href="https://www.bethyl.com/content/protocol_IP_WB">https://www.bethyl.com/content/protocol_IP_WB</a></p>										

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.  
Eric McIntush, PhD | Chief Scientific Officer

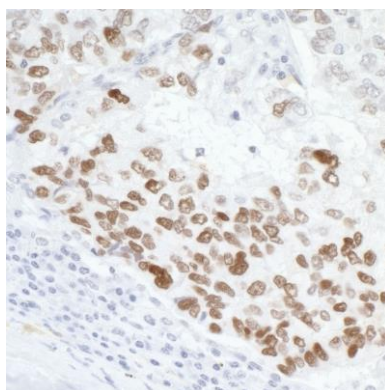
Date: June 21, 2019



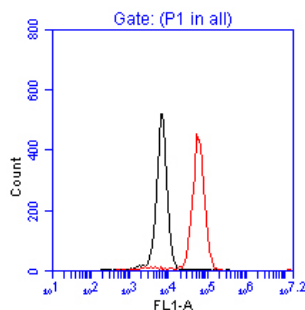
**Detection of human P53 by western blot.** *Samples:* Whole cell lysate (5, 15 and 50  $\mu$ g) from HEK293T cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-P53 antibody A300-247A (lot A300-247A-2) used for WB at 0.1  $\mu$ g/ml. *Detection:* Chemiluminescence with an exposure time of 30 seconds.



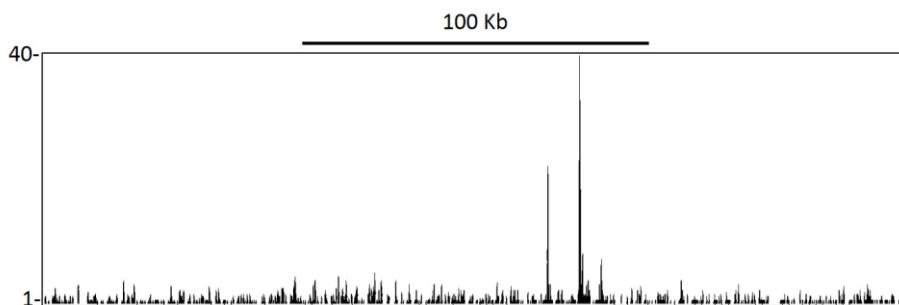
**Detection of human P53 by western blot of immunoprecipitates.** *Samples:* Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-P53 antibody A300-247A (lot A300-247A-2) used for IP at 3  $\mu$ g per reaction. P53 was also immunoprecipitated by rabbit anti-P53 antibody A300-249A. For blotting immunoprecipitated P53, A300-247A was used at 1  $\mu$ g/ml. *Detection:* Chemiluminescence with an exposure time of 30 seconds.



**Detection of human p53 by immunohistochemistry.** *Sample:* FFPE section of human lung cancer *Antibody:* Affinity purified rabbit anti- p53 (Cat. No. A300-247A Lot2) used at 1:5,000 (0.2 $\mu$ g/ml). *Detection:* DAB



**Flow Cytometrical Analysis of p53 in Jurkat Cells.** Jurkat cells were fixed in 1.5% PFA, and permeabilized in 90% Methanol.  $1 \times 10^6$  cells were stained with 1.5  $\mu$ g anti-KLH IgG control or anti-p53 [A300-247A] and secondary FITC-conjugated goat anti-rabbit (in a 150  $\mu$ l reaction). anti-KLH control IgG (black); anti-p53 (red).



**Localization of p53 Binding Sites by ChIP-sequencing.** Chromatin from MCF-7 was immunoprecipitated with anti-p53 antibody A300-247A and analyzed by DNA sequencing. The figure illustrates the peak distribution of p53 binding within a 250 Kb region of chromosome 6 as detected using anti-p53 A300-247A. ChIP-seq validation performed by Active Motif, Carlsbad, CA.