

Rabbit anti-Human TP53 Polyclonal Antibody | anti-TP53 antibody

TP53 Polyclonal Antibody

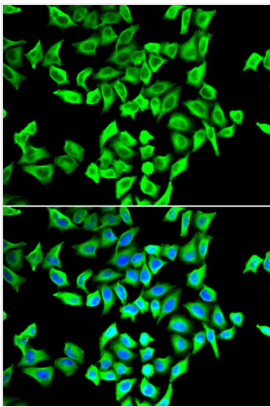
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36663	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

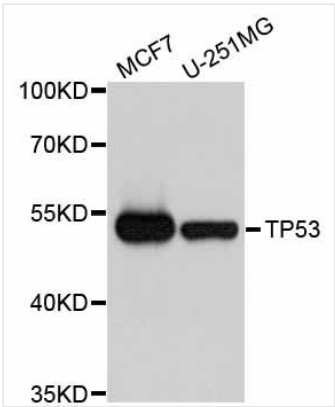
TP53; Polyclonal Antibody; TP53 Polyclonal Antibody; p53: TP53; FLJ92943; LFS1; TRP53; p53; anti-TP53 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Concentration	1mg/ml (varies by lot)
Sequence Length	393
Applicable Applications for anti-TP53 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human TP53
Calculated Molecular Weight	44kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.



IF (Immunofluorescence)
Immunofluorescence analysis of A549 cells using TP53 antibody.



WB (Western Blot)
Western blot analysis of extracts of various cell lines, using TP53 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-TP53 antibody	The TP53 tumor suppressor protein plays a major role in cellular response to DNA damage and other genomic aberrations. Activation of TP53 can lead to either cell cycle arrest and DNA repair or apoptosis (1). TP53 is phosphorylated at multiple sites in vivo and by several different protein kinases in vitro (2,3). DNA damage induces phosphorylation of TP53 at Ser15 and Ser20 and leads to a reduced interaction between TP53 and its negative regulator, the oncoprotein MDM2 (4). MDM2 inhibits TP53 accumulation by targeting it for ubiquitination and proteasomal degradation (5,6). TP53 can be phosphorylated by ATM, ATR, and DNA-PK at Ser15 and Ser37. Phosphorylation impairs the ability of MDM2 to bind TP53, promoting both the accumulation and activation of TP53 in response to DNA damage (4,7). Chk2 and Chk1 can phosphorylate TP53 at Ser20, enhancing its tetramerization, stability, and activity (8,9). TP53 is phosphorylated at Ser392 in vivo (10,11) and by CAK in vitro (11). Phosphorylation of TP53 at Ser392 is increased in human tumors (12) and has been reported to influence the growth suppressor function, DNA binding, and transcriptional activation of TP53 (10,13,14). TP53 is phosphorylated at Ser6 and Ser9 by CK1delta and CK1epsilon both in vitro and in vivo (13,15). Phosphorylation of TP53 at Ser46 regulates the ability of TP53 to induce apoptosis (16). Acetylation of TP53 is mediated by p300 and CBP acetyltransferases. Inhibition of deacetylation suppressing MDM2 from recruiting HDAC1 complex by p19 (ARF) stabilizes TP53. Acetylation appears to play a positive role in the accumulation of TP53 protein in stress response (17).
Product Categories/Family for anti-TP53 antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	269849759
NCBI GeneID	7157
UniProt Accession #	P04637; Q15086; Q15087; Q15088; Q16535; Q16807; Q16808; Q16809; Q16810; Q16811; Q16848; Q2XN98
Molecular Weight	393
NCBI Official Full Name	Cellular tumor antigen p53
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; antigen NY-CO-13; tumor protein 53; phosphoprotein p53; p53 tumor suppressor; mutant tumor protein 53; transformation-related protein 53

UniProt Protein Name	Cellular tumor antigen p53
UniProt Gene Name	TP53
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/tp53-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/36663>