

Mouse p53 Monoclonal Antibody | anti-p53 antibody

MOUSE ANTI p53 (aa20-25)

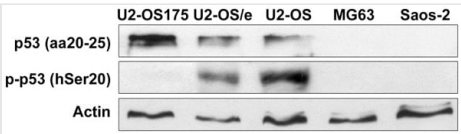
CATALOG # AAA49285	HOST Mouse	REACTIVITY Bovine, Cat, Green Monkey, Horse	APPLICATIONS Western Blot, Immunohistochemistry, Immunoprecipitation, ELISA, Immunohistochemistry
------------------------------	----------------------	---	---

PRODUCT SYNONYMS

p53; Monoclonal Antibody; MOUSE ANTI p53 (aa20-25); anti-p53 antibody

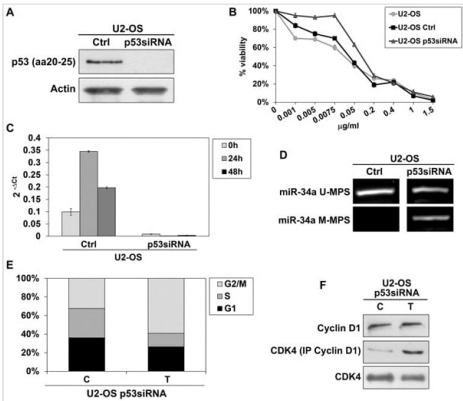
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Bovine, Cat, Green Monkey, Horse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	DO-1
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	214
Applicable Applications for anti-p53 antibody	WB (Western Blot), IHC (Immunohistochemistry), IP (Immunoprecipitation), ELISA, IHC (Immunohistochemistry)
Perservative Stabilisers	0.09% Sodium Azide
Immunogen	Recombinant human p53.
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse X63Ag8.653 myeloma cell line.
Histology Positive Control Tissue	Colon or breast carcinoma
Buffer Solution	Phosphate buffered saline
Target Species	Human
Species Cross-Reactivity Note	Does not react with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators.
Preparation and Storage	It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.



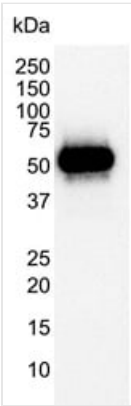
Application Data

Published customer image: p53 protein expression in OS cells. wt-p53 U2-OS, U2-OS transfected with empty vector (U2-OS/e) and p53-impaired U2-OS175 cells were positive to anti-p53 that binds the transactivation site of N-terminal domain (aa20-25), with increased expression in U2-OS175 cells. U2-OS and U2-OS/e also presented accumulation of p53 phosphorylated at Ser20 residue (p-p53). MG63 and Saos-2 were negative to both antibodies. Actina was used as loading control.From: Novello C, Pazzaglia L, Conti A, Quattrini I, Pollino S, et al. (2014) p53-Dependent Activation of microRNA-34a in Response to Etoposide-Induced DNA Damage in Osteosarcoma Cell Lines Not Impaired by Dominant Negative p53 Expression. PLoS ONE 9(12): e114757.



Application Data

Published customer image:Response of p53siRNA U2-OS cells to etoposide. (A) Inhibition of p53 expression in p53siRNA U2-OS. Actin was used as loading control. (B) p53siRNA U2-OS were less sensitive to etoposide when compared with parental and Ctrl U2-OS;. Student's test from three independent experiments indicated significantly higher IC50 mean values at 72 h of treatment in p53siRNA U2-OS than in Ctrl and parental U2-OS cells; p = 0.05 (C) Etoposide treatment did not induce mature miR-34a expression in p53siRNA U2-OS, as opposed to Ctrl U2-OS. (D) p53siRNA U2-OS cells presented CpG island methylation (M-MSP) of one of the two alleles of miR-34a. In Ctrl U2-OS both alleles were unmethylated. (E) p53siRNA transfection determined lengthening of G2/M phase after 48 h of etoposide treatment when compared to untreated cells. (F) Western blot of cyclin D1 and CDK4 in p53siRNA cell showed increased amount of CDK4 linked to cyclin D1 and total CDK4 after etoposide treatment when compared to control. No differences in cyclin D1 levels were seen. Ctrl = siRNA negative control duplex; C = Untreated cells; T = Etoposide treated cells.From: Novello C, Pazzaglia L, Conti A, Quattrini I, Pollino S, et al. (2014) p53-Dependent Activation of microRNA-34a in Response to Etoposide-Induced DNA Damage in Osteosarcoma Cell Lines Not Impaired by Dominant Negative p53 Expression. PLoS ONE 9(12): e114757.



Application Data

Western blot analysis of COS-7 simian fibroblast-like whole cell lysate probed with Mouse anti p53 antibody followed by HRP conjugated Goat anti Mouse IgG, visualized using chemiluminescence

ADDITIONAL INFORMATION

Related Product Information for anti-p53 antibody

Mouse anti Human p53 antibody, clone DO-1 recognizes the human p53 tumor suppressor protein, also known as cellular tumor antigen p53 or NY-CO-13. Clone DO-1 binds to both wild type and mutant forms of the p53 protein found in various malignancies (Kern et al. 1992). p53 is important in multicellular organisms, where it regulates cell cycle progression to allow DNA repair or apoptosis in the case of irreparably damaged cells (Haupt et al. 2003) and thus functions as a tumor suppressor that is involved in preventing cancer. Mutations in the p53 gene are found in about half the cases of human cancer (Joerger andFersht 2007) Mouse anti Human p53 antibody, clone DO-1 recognizes an epitope at the N-terminal end of p53 between amino acids 20-25,common to isoforms 1-3 of p53.

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
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; antigen NY-CO-13; mutant tumor protein 53; p53 tumor suppressor; phosphoprotein p53; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/p53-antibody-clone-do-1-western-blot-immunohistochemistry-immunoprecipitation-immunohistochemistry-elisa/49285>