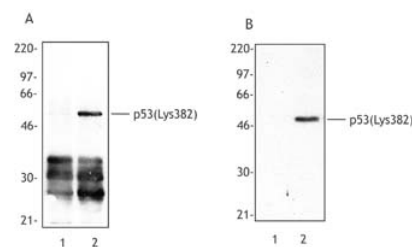


Purified anti-p53-Acetylated (Lys382)

- Catalog # / Size:** 614201 / 50 μ l (5 Western blots)
 614202 / 200 μ l (20 Western blots)
- Clone:** Poly6142
- Isotype:** Rabbit IgG
- Immunogen:** Modified peptide
- Reactivity:** Human, reacts against Lys382-acetylated p53
- Preparation:** The antibody was purified by antigen-affinity chromatography.
- Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.
- Storage:** Upon receipt, store frozen at -20° C.



MCF-7 cells were treated with 50 μ M sodium butyrate and 2 nM actinomycin D for 8 hrs. MCF7 cell extract was resolved by electrophoresis (panel B) or immunoprecipitated with a p53 monoclonal (panel A) and resolved by electrophoresis. Proteins were transferred to nitrocellulose, and probed with rabbit polyclonal antibody against acetylated p53 (Lys382). Lane 1=untreated, control MCF-7 cells; Lane 2=treated MCF-7 cells. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.

Applications:

Applications: WB - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 μ l per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:

1. Wang, *et al.* 2003. *J. Biol. Chem.* 278:25568
2. van Leeuwen IM, *et al.* 2013. *Mol Cancer Ther.* 12:471. PubMed.
3. McCarthy AR, *et al.* 2013. *Mol Cancer ther.* 12:352. PubMed.

Description: p53 is a 53 kD protein that forms tetramers and functions as a tumor suppressor and transcriptional activator of genes that inhibit growth and/or invasion, cell cycle checkpoint after irradiation, DNA repair, apoptotic induction, signal transduction, and cell adhesion. This protein is localized to the nucleus when activated and can be upregulated by genotoxic or other cellular stresses. p53 is modified by phosphorylation, acetylation, ribosylation, ubiquitination, and sumoylation; ubiquitination targets p53 for degradation via mdm2. This protein interacts with a variety of proteins including mdm2, mdmx, topoisomerase I, PML3, Bcl-X_L, Bcl-2, Chk1, JNK, p38, HIPK2, CK2, DNA-PK, p300/CBP, PCAF, PARP1, and HDAC1-3. Mutant p53 associates with p63 and p73. The Poly6142 antibody recognizes human acetylated p53 (Lys382) and has been shown to be useful for Western blotting.

Antigen References:

1. Vogelstein B, *et al.* 1992. *Cell* 70:523.
2. Shieh S, *et al.* 1997. *Cell* 91:325.
3. Mihara M, *et al.* 2003. *Mol. Cell* 11:577.
4. Saito S, *et al.* 2003. *J. Biol. Chem.* 278:37536.

Related Products: Product

Purified anti-DNA-PKcs Phosphorylated (Thr2609)
 Purified anti-DNA-PKcs
 Purified anti-DNA-PKcs Phosphorylated (Thr2609)
 Purified anti-Topo I
 Purified anti-CBP
 Purified anti-CBP
 Purified anti-p300
 Purified anti-DNA-PKcs
 Purified anti-p53
 Purified anti-p53-Acetylated (Lys305)
 Purified anti-p63 (TA)
 Purified anti-p63 (Δ N)
 HRP Donkey anti-rabbit IgG (minimal x-reactivity)

Clone

10B1
 7A4
 7G4
 Poly6058
 Poly6063
 Poly6064
 Poly6093
 Poly6126
 Poly6140
 Poly6141
 Poly6189
 Poly6190
 Poly4064

Application

IF, WB
 IF, WB
 IHC, WB
 WB
 IF, WB
 WB
 WB
 WB
 WB
 WB
 WB, IF
 ELISA, IHC, WB



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