



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-71-133-EX

Anti-p53 acetyl-K382

BACKGROUND

p53 mutants are found in more than half of human cancers and are considered as the most important human cancer related gene. p53 is detected at 53kD position by electrophoresis and is composed of 393 amino acids. In the unstressed normal cells, the p53 level is low and it is inactive. However, with stress, especially with DNA damage, it is activated to promote arrest of cell cycle and repair of DNA damage, or induction of apoptosis. The functions and stability of p53 are regulated by phosphorylation of serine and threonine, and acetylation of lysine at various sites in the molecule.

Acetylation of lysine 382 (acetyl-K382) of p53 occurs after DNA damage and is catalyzed by the p300/CBP acetyltransferase, which stabilizes p53 protein (ref 1).

Product type	Primary antibodies
Host	Mouse
Source	Monoclonal antibody raised against synthetic peptide containing acetyl-Lys382 of human p53
Form	Liquid Purified IgG 1mg/ml in PBS (pH 7.4), 50% glycerol, sterilized by filtration
Volume	50 µg
Concentration	
Specificity	Reacts with human p53 acetylated at Lys382. Other species have not been tested.
Antigen	Synthetic peptide containing acetyl-Lys382 of human p53
Isotype	Mouse IgG1 (κ)

Application notes WB, ELISA

Recommended use

Recommended dilutions

Western blotting: (~1 ug/ml)

Optimal dilutions/concentrations should be determined by the end user.

Data Link UniProtKB/Swiss-Prot [P04637](#) (P53_HUMAN)

Staining Pattern

Cross reactivity

Storage -20°C (Long period -70°C)

References This product has been used for the following references.

1. Bode AM & Dong Z "Post-translational modification of p53 in tumorigenesis" Nature Rev Cancer 4:793-805 (2004) PMID:[15510160](#)

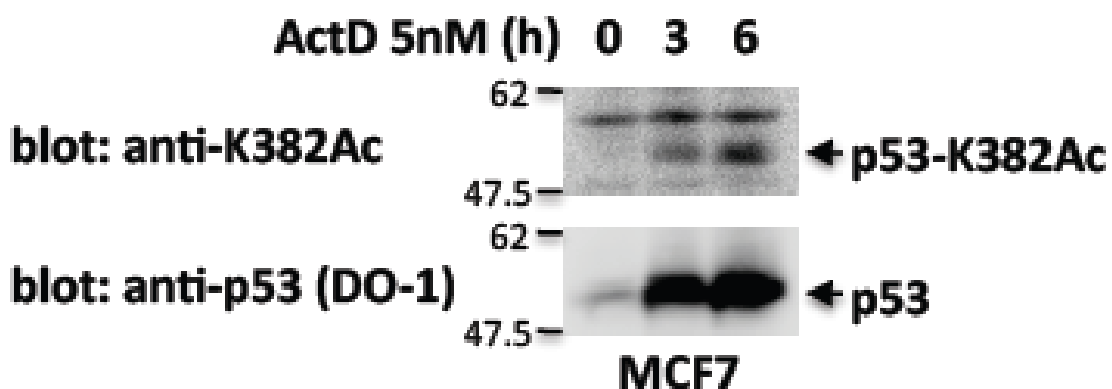


Fig.1 Identification of p53 protein, whose Lys382 is acetylated, by Western blotting with 2B7E4 antibody. MCF7 cells in culture were treated with actinomycin D at 5 nM for the indicated periods and the cell extracts were analyzed by Western blotting with anti-p53 acetyl-K382 antibody (2B7E4) and omnipotent anti-p53 antibody (DO-1). Acetylation of p53 at K382 was induced by the DNA damaging treatment.

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