

Datasheet for ABIN3201007  
**anti-p53 antibody (acLys315)**



[Go to Product page](#)

3 Images

3 Publications

## Overview

Quantity:	100 µg
Target:	p53 (TP53)
Binding Specificity:	acLys315
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP)

## Product Details

Immunogen:	synthetic peptide containing acLys315
Clone:	10E5
Isotype:	IgG1 kappa
Characteristics:	This product is the purified IgG fraction obtained from serum-free culture medium of mouse hybridoma (clone 10E5), which produces monoclonal antibody that specifically recognizes human p53 protein with acetylated Lys120.
Purification:	Purified

## Target Details

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Alternative Name: [p53 \(TP53 Products\)](#)

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 120 (acetyl-K120) of p53 occurs rapidly after DNA damage and is catalyzed by the MYST family acetyltransferases hMOF and TIP60, and activates transcription of proapoptotic genes, BAX and PUMA.

UniProt: [P04637](#)

Pathways: [p53 Signaling](#), [MAPK Signaling](#), [PI3K-Akt Signaling](#), [Apoptosis](#), [AMPK Signaling](#), [Chromatin Binding](#), [ER-Nucleus Signaling](#), [Positive Regulation of Endopeptidase Activity](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Autophagy](#), [Warburg Effect](#)

## Application Details

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Application Notes: 1. Western blotting: ~1 g/mL

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS ( pH 7.4), 50 % glycerol

Preservative: Azide free

Storage: -20 °C

Storage Comment: Upon arrival centrifuge briefly and store at -20 C.

## Publications

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Product cited in: Tyteca, Legube, Trouche: "To die or not to die: a HAT trick." in: **Molecular cell**, Vol. 24, Issue 6, pp. 807-8, (2006) ([PubMed](#)).

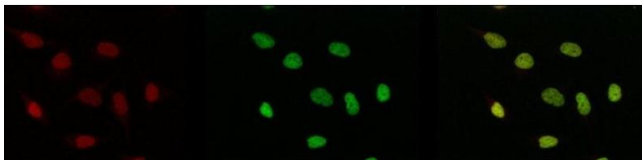
Tang, Luo, Zhang, Gu: "Tip60-dependent acetylation of p53 modulates the decision between cell-cycle arrest and apoptosis." in: **Molecular cell**, Vol. 24, Issue 6, pp. 827-39, (2006) ([PubMed](#)).

Sykes, Mellert, Holbert, Li, Marmorstein, Lane, McMahon: "Acetylation of the p53 DNA-binding domain regulates apoptosis induction." in: **Molecular cell**, Vol. 24, Issue 6, pp. 841-51, (2006) ([PubMed](#)).

Images

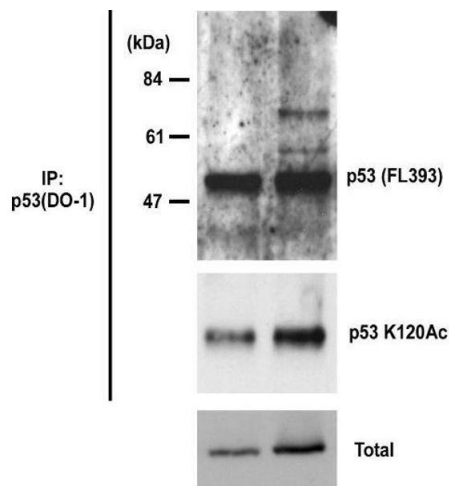
Immunofluorescence

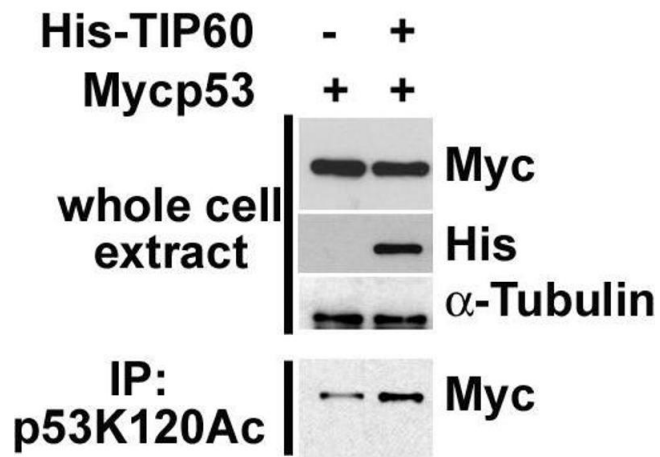
Image 1.



Western Blotting

Image 2.





Western Blotting

Image 3.