Datasheet for ABIN3201008

anti-p53 antibody (acLys382)

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Overview

Quantity:	100 µg
Target:	p53 (TP53)
Binding Specificity:	acLys382
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Synthetic peptide containing acLys382 of human p53
Clone:	2B7E4
Isotype:	IgG1 kappa
Specificity:	Reacts with human p53 acetylated at Lys382.
Cross-Reactivity (Details):	Not tested for other species
Purification:	Purified
Sterility:	Sterile filtered

Target Details

Target:	p53 (TP53)

Target Details

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

Application Notes:	1) Wester blotting: ~1 g/mL 2) Immunoflurescence staining: 1/1,000 dilution Other applications have not been tested.
Restrictions:	For Research Use only

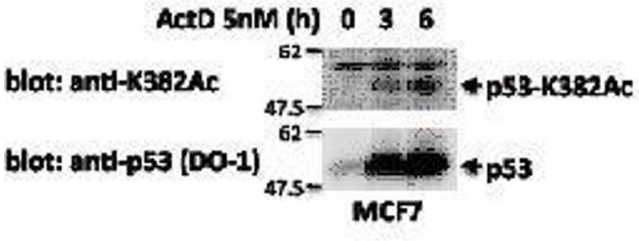
Handling

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

Product cited in:	Bode, Dong: "Post-translational modification of p53 in tumorigenesis." in: **Nature reviews. Cancer**, Vol. 4, Issue 10, pp. 793-805, (2004) (PubMed).

Images



Western Blotting

Image 1.