

Datasheet for ABIN3201004
anti-p53 antibody (pSer20)



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Overview

Quantity:	100 µg
Target:	p53 (TP53)
Binding Specificity:	pSer20
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	synthetic peptide containing pSer20
Clone:	17B6
Isotype:	IgG1 kappa
Purification:	Purified
Sterility:	Sterile filtered

Target Details

Target:	p53 (TP53)
Alternative Name:	p53 (TP53 Products)
Background:	P53 mutants are found in more than half of human cancers and are considered as the most

Target Details

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 of p53 are regulated by phosphorylation of serine and threonine, and acetylation of lysine at various sites in the molecule. p53 at Ser20 is phosphorylated by Chk1 and Chk2 kinases and this enhances tetramerization, stability and activity of p53.

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) Western blotting: ~ 1 g/mL
2) ELISA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS, 50 % glycerol

Preservative: Azide free

Storage: -20 °C/-80 °C

Storage Comment: -20 C (For long term storage: -70 C)

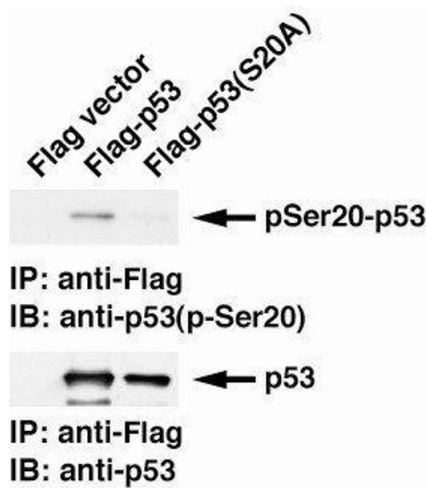
Publications

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](#)).

Hirao, Kong, Matsuoka, Wakeham, Ruland, Yoshida, Liu, Elledge, Mak: "DNA damage-induced activation of p53 by the checkpoint kinase Chk2." in: **Science (New York, N.Y.)**, Vol. 287, Issue 5459, pp. 1824-7, (2000) ([PubMed](#)).

Shieh, Taya, Prives: "DNA damage-inducible phosphorylation of p53 at N-terminal sites including a novel site, Ser20, requires tetramerization." in: **The EMBO journal**, Vol. 18, Issue 7, pp. 1815-23, (1999) ([PubMed](#)).

Images



Western Blotting

Image 1.