

ARG30213 Phospho p53 Antibody Duo (Total, pS15)

Package: 1 pair
Store at: -20°C

Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG20150	anti-p53 phospho (Ser15) antibody	Rabbit pAb	Hu, Ms, Rat	IHC-P, IP, WB	25 µg
ARG51081	anti-p53 antibody	Rabbit pAb	Hu	ICC/IF, IHC-P, WB	50 µl

Summary

Product Description P53, also known as tumor antigen p53, acts as a tumor suppressor in many tumor types to induce growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Upon gamma-irradiation and DNA damage, p53 is phosphorylated at Ser15 residue and this increases its ability to recruit CBP/p300 which in turns increase the overall acetylation of C-terminus of p53 protein. Acetylation of C-terminal domain can dramatically increase site-specific DNA binding ability of p53 protein on both short oligonucleotides and long DNA fragments. Zhao et al. 2008. Cell cycle 7(19): 3048-55 Lambert et al. 1998. J Biol Chem 273(49): 33048 Luo et al. 2004. PNAS 101(8): 2259

Related news:

[Immune signaling protein TLR4 has opposing roles in breast cancer development](#)
[Therapeutic strategies against PDAC](#)

Target Name p53

Alternate Names Phospho p53 antibody; Phospho tumor protein p53 antibody; p53 phospho (Ser15) antibody; p53 antibody

Properties

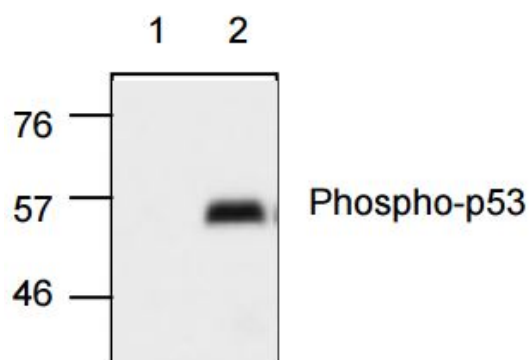
Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Full Name Phospho tumor protein p53 Antibody Duo (Total, pS15)

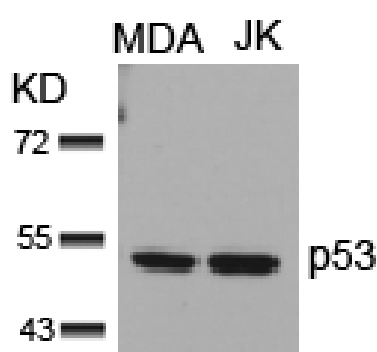
Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Gene Regulation antibody



ARG20150 anti-P53 phospho (Ser15) antibody WB image

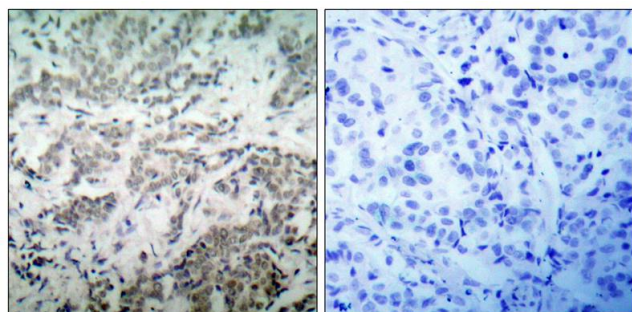
Western Blot: 1. Untreated HeLa cell 2. UV-treated HeLa cell stained with anti-p53 (phospho Ser15) antibody (ARG20150).

The antibody detects ~53 kDa Ser15 phosphorylated p53. It does not react with non-phosphorylated p53 or p53 phosphorylated at other sites.



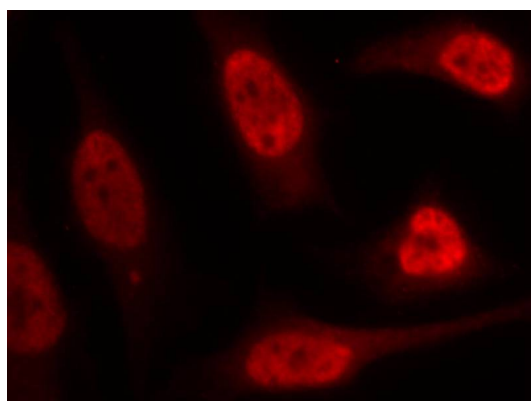
ARG51081 anti-p53 antibody WB image

Western Blot: extracts from MDA and JK cells stained with anti-p53 antibody ARG51081.



ARG51081 anti-p53 antibody IHC-P image

Immunohistochemistry: paraffin-embedded human breast carcinoma tissue stained with anti-p53 antibody ARG51081 (left) or the same antibody preincubated with blocking peptide (right).



ARG51081 anti-p53 antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with anti-p53 antibody ARG51081.