

Datasheet for ABIN1881624
anti-p53 antibody (pSer9)



[Go to Product page](#)

3 Images

5 Publications

Overview

Quantity:	400 µL
Target:	p53 (TP53)
Binding Specificity:	pSer9
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Dot Blot (DB)

Product Details

Immunogen:	This P53 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S9 of human P53.
Clone:	RB7893
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	p53 (TP53)
Alternative Name:	P53 (TP53 Products)
Background:	Tumor protein p53, a nuclear protein, plays an essential role in the regulation of cell cycle,

Target Details

specifically in the transition from G0 to G1. It is found in very low levels in normal cells, however, in a variety of transformed cell lines, it is expressed in high amounts, and believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing DNA-binding, oligomerization and transcription activation domains. It is postulated to bind as a tetramer to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of the TP53 gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome.

Molecular Weight:	43653
NCBI Accession:	NP_000537 , NP_001119584 , NP_001119585 , NP_001119586 , NP_001119587 , NP_001119588 , NP_001119589 , NP_001119590 , NP_001263624 , NP_001263625 , NP_001263626 , NP_001263627 , NP_001263628 , NP_00126
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:	IF: 1:10~50. WB: 1:1000. DB: 1:500
Restrictions:	For Research Use only

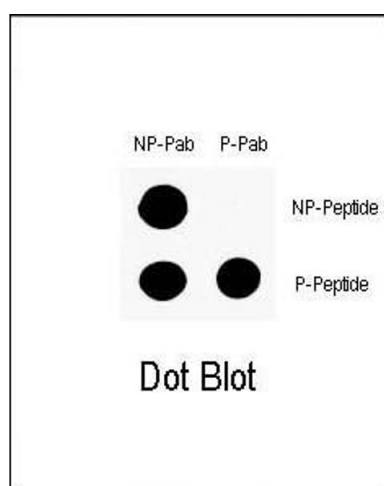
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

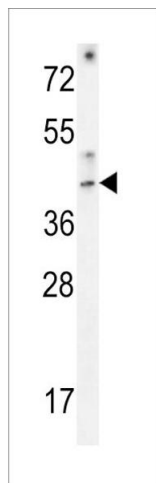
- Product cited in: Blanchette, Cheng, Yan, Ketner, Ornelles, Dobner, Conaway, Conaway, Branton: "Both BC-box motifs of adenovirus protein E4orf6 are required to efficiently assemble an E3 ligase complex that degrades p53." in: **Molecular and cellular biology**, Vol. 24, Issue 21, pp. 9619-29, (2004) ([PubMed](#)).
- Adachi, Toyota, Sasaki, Yamashita, Ishida, Ohe-Toyota, Maruyama, Hinoda, Saito, Imai, Kudo, Tokino: "Identification of SCN3B as a novel p53-inducible proapoptotic gene." in: **Oncogene**, Vol. 23, Issue 47, pp. 7791-8, (2004) ([PubMed](#)).
- Zhang, Wang, Chen, Zhang, Cheng, Heng, Wu, Shen: "Repression of hsp90beta gene by p53 in UV irradiation-induced apoptosis of Jurkat cells." in: **The Journal of biological chemistry**, Vol. 279, Issue 41, pp. 42545-51, (2004) ([PubMed](#)).
- Anazawa, Arakawa, Nakagawa, Nakamura: "Identification of STAG1 as a key mediator of a p53-dependent apoptotic pathway." in: **Oncogene**, Vol. 23, Issue 46, pp. 7621-7, (2004) ([PubMed](#)).
- Montagnoli, Tenca, Sola, Carpani, Brotherton, Albanese, Santocanale: "Cdc7 inhibition reveals a p53-dependent replication checkpoint that is defective in cancer cells." in: **Cancer research**, Vol. 64, Issue 19, pp. 7110-6, (2004) ([PubMed](#)).

Images



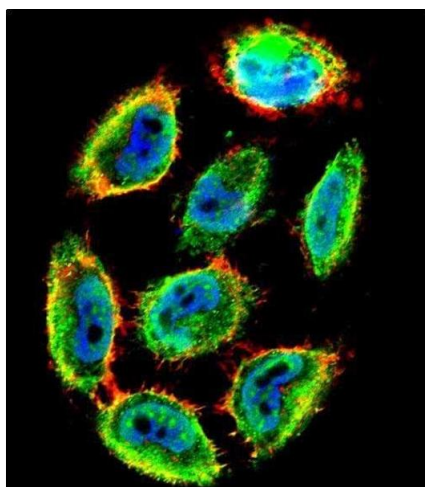
Dot Blot

Image 1. Dot blot analysis of anti-Phospho-P53-S9 Antibody (ABIN1881624 and ABIN2850450) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibodies working concentration was 0.5 µg per ml.



Western Blotting

Image 2. Western blot analysis of Phospho-P53-S9 (ABIN1881624 and ABIN2850450) in HL60(left) and Ramos (right) cell line lysate.



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of Phospho-P53-S9 Antibody (ABIN1881624 and ABIN2850450) with cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).