BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-P53 Antibody

Catalog Number: M00001

About TP53

Acts as a tumor suppressor in many tumor types; induces 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. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis; the function is largely independent of transcription. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA- Mkln1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seem to have to effect on cell-cycle regulation. Implicated in Notch signaling cross-over. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Isoform 2 enhances the transactivation activity of isoform 1 from some but not all TP53-inducible promoters. Isoform 4 suppresses transactivation activity and impairs growth suppression mediated by isoform 1. Isoform 7 inhibits isoform 1-mediated apoptosis.

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Overview

Product Name	Anti-P53 Antibody
Reactive Species	African green monkey, Human
Description	Boster Bio Anti-P53 Antibody (Catalog # M00001). Tested in WB, IHC-P application(s). This antibody reacts with Human, African green monkey.
Application	IHC-P, WB
Clonality	Monoclonal 1711CT184.18.1
Formulation	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Mouse
Uniprot ID	P04637

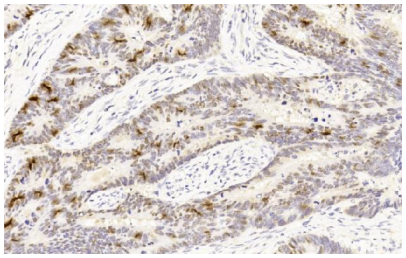
Technical Details

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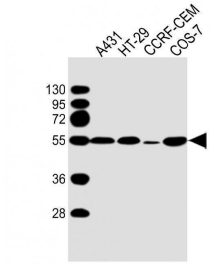
Immunogen	This P53 antibody is generated from a mouse immunized with a recombinant protein conjugated synthetic peptide between 1-393 amino acids from human P53.
Predicted Reactive Species	Bovine
Isotype	IgG1,k
Purification	This antibody is purified through a protein G column, followed by dialysis against PBS.
Suggested Dilutions	IHC: 1:400 WB: 1:2000

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Anti-P53 Antibody (M00001) Images



Immunohistochemical analysis of paraffin-embedded Human Colon cancer section using Pink1. M00001 was diluted at 1:400 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



All lanes : Anti-P53 Antibody at 1:2000 dilutionLane 1: A431 whole cell lysateLane 2: HT-29 whole cell lysateLane 3: CCRF-CEM whole cell lysateLane 4: COS-7 whole cell lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

9 Publications Citing This Product

1. PubMed ID: 25516716, Wang Q, Xu Y, Zhou W, Zhong L, Wen Z, Yu H, Chen S, Shen J, Chen H, She Q, Jiang J, Miao J, Wei W. Int J Biol Sci. 2014 Nov 18;10(10):1181-92. Doi: 10.7150/Ijbs.10275. Ecollection 2014. The Viral Oncoprotein Hbx Of Hepatitis B Virus Promotes The G...

2. PubMed ID: 23847445, Yang S, Wang H, Guo Y, Chen S, Zhang My, Shen J, Yu H, Miao J, Wang Hy, Wei W. Int J Biol Sci. 2013 Jul 5;9(6):637-48. Doi: 10.7150/Ijbs.6439. Print 2013. Rmp Plays Distinct Roles In The Proliferation Of Hepatocellular Carcinoma Cells And Normal H...

3. PubMed ID: 23292006, Zhou L, Yang Y, Tian D, Wang Y. Oncol Rep. 2013 Mar;29(3):875-84. Doi: 10.3892/Or.2013.2227. Epub 2013 Jan 4. Oxidative Stress-Induced 1, N6-Ethenodeoxyadenosine Adduct Formation Contributes To Hepatocarcinogenesis.

Visit bosterbio.com/anti-p53-antibody-m00001-boster.html to see all 9 publications.

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