

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- Mkl1. 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.

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 |

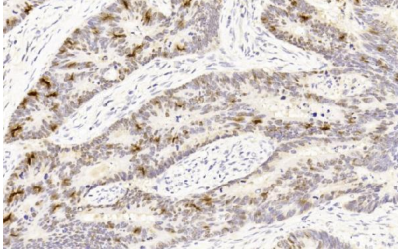
Technical Details

| | |
|----------------------------|---|
| 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. |

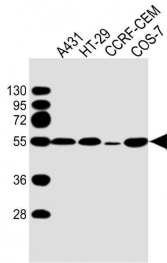
Suggested Dilutions

IHC: 1:400
WB: 1:2000

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 dilution
Lane 1: A431 whole cell lysate
Lane 2: HT-29 whole cell lysate
Lane 3: CCRF-CEM whole cell lysate
Lane 4: COS-7 whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa
Blocking/Dilution buffer: 5% NFDN/TBST.

9 Publications Citing This Product

1. PubMed ID: 25395712, Li W, Wu D, Wei B, Wang S, Sun H, Li X, Zhang F, Zhang C, Xin Y. Afr J Tradit Complement Altern Med. 2014 Aug 23;11(5):99-104. Ecollection 2014. Anti-Tumor Effect Of Cactus Polysaccharides On Lung Squamous Carcinoma Cells (Sk-Mes-1).
2. PubMed ID: 26137081, Lactotransferrin expression is downregulated and affects the mitogen-activated protein kinase pathway in gastric cancer
3. PubMed ID: 27065079, TALENs-directed?knockout?of the?full-length?transcription?factor?Nrf1?that?represses?malignantbehaviour?of?human?hepatocellular?carcinoma?(HepG2)?cells

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

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-P53 Antibody

For Research Use Only. Not for use in diagnostic procedures.