BOSTER
antibody and ELISA experts

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

Anti-p63/TP63 Antibody Picoband®

Catalog Number: PB9152

About TP63

Tumor protein p63 (TP63), also known as the p63 or TP73L is a protein that in humans is encoded by the TP63 gene. It is mapped to 3q28. TP63 is a member of the p53 family of transcription factors. This gene encodes for two main isoforms by alternative promoters (TAp63 and ΔNp63). TP63 has been mostly restricted to its apoptotic function and more recently as the guardian of oocyte integrity. It has been found that the combined loss of TP63 and p73 results in the failure of cells containing functional p53 to undergo apoptosis in response to DNA damage. TP63 is an essential regulator of stem cell maintenance in stratified epithelial tissues. Tp63 is also critical for maintaining the progenitor-cell populations that are necessary to sustain epithelial development and morphogenesis.

Overview

Product Name	Anti-p63/TP63 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-p63/TP63 Antibody Picoband® catalog # PB9152. Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9H3D4

Technical Details

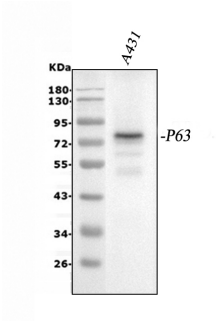
Immunogen	E.coli-derived human p63 recombinant protein (Position: S311-E680). Human p63 shares 98% amino acid (aa) sequence identity with both mouse and rat p63.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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

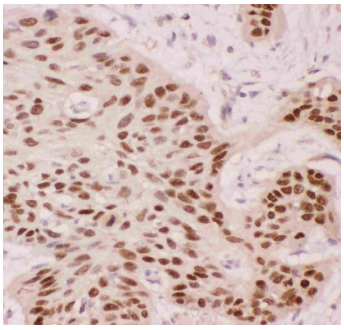
	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Immunocytochemistry , 0.5-1ug/ml, Human, - Immunocytochemistry/Immunofluorescence, 5ug/ml, Human Immunofluorescence, 5ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human

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

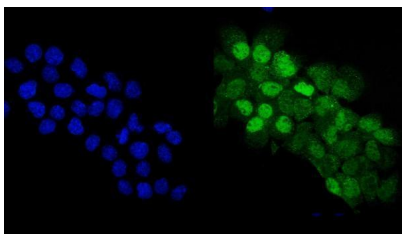
Anti-p63/TP63 Antibody Picoband® (PB9152) Images



Western blot analysis of p63 using anti-p63 antibody (PB9152). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates. red to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-p63 antigen affinity purified polyclonal antibody (Catalog # PB9152) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for p63 at approximately 75 kDa. The expected band size for p63 is at 75 kDa.



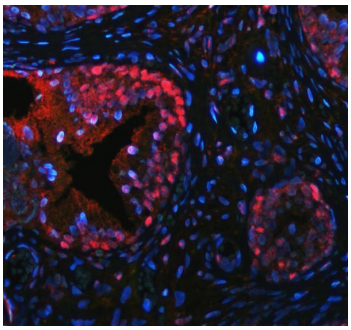
IHC analysis of p63 using anti-p63 antibody (PB9152). p63 was detected in a paraffin-embedded section of human oesophagus squama cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-p63 Antibody (PB9152) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



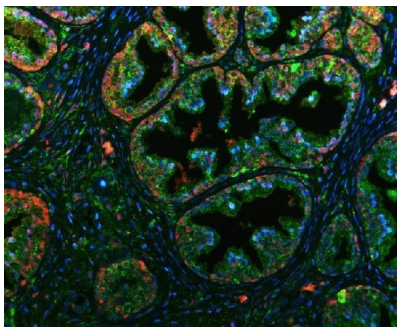
IF analysis of p63 using anti-p63 antibody (PB9152). p63 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-p63 Antibody (PB9152) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

IF analysis of p63 using anti-p63 antibody (PB9152). p63 was detected in a paraffin-embedded section of human prostate hyperplasia tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-p63 Antibody (PB9152) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30

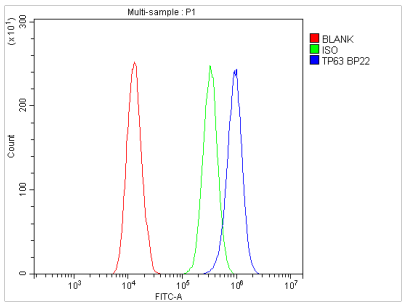
BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com



minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of AMACR and TP63 using anti-AMACR antibody (PB9983) and anti-TP63 antibody (PB9152). AMACR and TP63 were detected in paraffin-embedded sections of human prostatic hyperplasia tissue. Heat-mediated antigen retrieval was performed in EDTA buffer (pH 8.0). Tissue sections were blocked with 5% BSA. The sections were incubated overnight with 5 ug/mL rabbit Anti-TP63 antibody (PB9152). HRP-labeled secondary antibody was added dropwise and incubated for 30 minutes. TYR-570plus fluorescent dye reaction solution was then added dropwise and incubated at room temperature in the dark. Next, the sections were immersed in antigen retrieval buffer again to elute the bound antibodies. The staining steps were then repeated for the second round of labeling. Anti-AMACR antibody (PB9983) was diluted 1:50 and incubated with the sections overnight at 4°C. HRP-labeled secondary antibody was added dropwise and incubated for 30 minutes. After washing, TYR-520 plus fluorescent dye reaction solution was added dropwise and incubated at room temperature in the dark. Finally, DAPI staining solution was added dropwise to stain the nuclei, and the slides were sealed with an anti-fade mounting medium. The results were observed under a fluorescence microscope.



Flow Cytometry analysis of A431 cells using anti-p63 antibody (PB9152). Overlay histogram showing A431 cells stained with PB9152 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-p63 Antibody (PB9152, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

2 Publications Citing This Product

1. PubMed ID: 32210732, Zhong H,Ren Z,Wang X,Miao K,Ni W,Meng Y,Lu L,Wang C,Liu W,Deng CX,Xu RH,Chen G.Stagewise keratinocyte differentiation from human embryonic stem cells by defined signal transduction modulators.Int J Biol Sci.2020 Feb 21;16(8):1450-1462.doi:10.7150/ijbs.44414.PMID:32210732;PMCID:PMC7085224.

2. PubMed ID: 31748715, Hu L,Sun Y,Luo J,He X,Ye M,Li G,Zhang Y,Bai J,Zhang D,Chang C.Targeting TR4 nuclear receptor with antagonist

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

bexarotene increases docetaxel sensitivity to better suppress the metastatic castration-resistant prostate cancer progression.Oncogene.2020 Feb;39

Visit bosterbio.com/anti-p63-picoband-trade-antibody-pb9152-boster.html to see all 2 publications.

Anti-p63/TP63 Antibody

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