Product datasheet

Anti-P53/TP53 Antibody

Catalog Number: ***A00001-2***

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,
Wuhan East Lake High-tech Development Zone
Web: www.boster.com ***Phone:*** 027-67845390 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-P53/TP53 Antibody
Gene Name	TP53
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human TP53 recombinant protein (Position: M1-D186).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	53 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 Flow Cytometry (Fixed): 1:50-200 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants.

Reference

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Anti-P53/TP53 Antibody被引用在1文献中。

Selected Validation Data

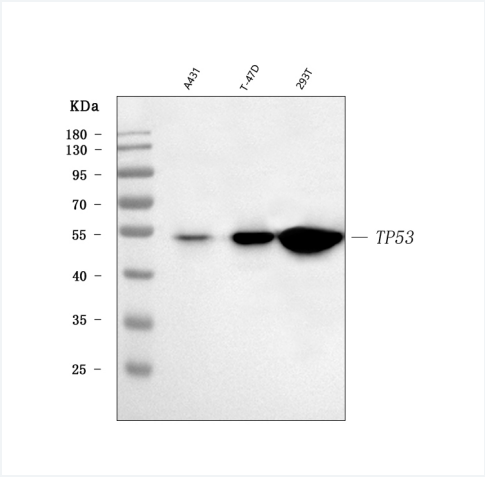

Figure 1. Western blot analysis of P53/TP53 using anti-P53/TP53 antibody (A00001-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: A431 whole cell lysates,
Lane 2: T-47D whole cell lysates,
Lane 3: 293T whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-P53/TP53 antigen affinity purified polyclonal antibody (A00001-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for P53/TP53 at approximately 53 kDa. The expected band size for P53/TP53 is at 44 kDa.

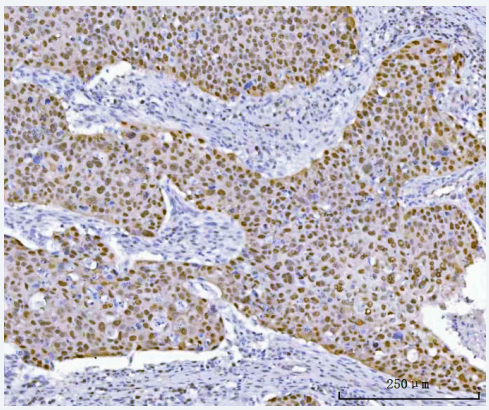

Figure 2. IHC analysis of P53/TP53 using anti-P53/TP53 antibody (A00001-2).
P53/TP53 was detected in a paraffin-embedded section of human esophageal squamous carcinoma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-P53/TP53 Antibody (A00001-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1022) as the chromogen.

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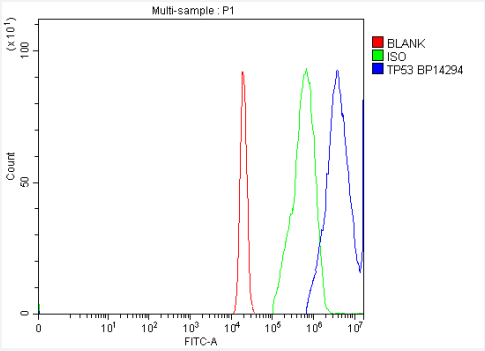

Figure 4. Flow Cytometry analysis of A431 cells using anti-P53/TP53 antibody (A00001-2).
Overlay histogram showing A431 cells stained with A00001-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-P53/TP53 Antibody (A00001-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.