

Basic Information

Product Name	Anti-P53/TP53 Antibody	
Gene Name	TP53	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg 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	53KD	
Dilution Ratios	Western blot (WB): 1:500-2000 ELISA: 1:100-1000 Flow cytometry (FCM): 1-3 µg/1x10 ⁶ cells Immunohistochemistry in paraffin section (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°C as supplied. 6 months 2 to 8°C 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.

Selected Validation Data

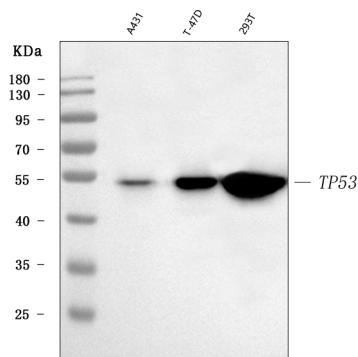


Figure 1. Western blot analysis of anti- TP53 antibody (A00001-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: A431 whole cell lysates,
Lane 2: T-47D whole cell lysates,
Lane 3: 293T whole cell lysates.
Use rabbit anti- TP53 1:1000, probed with a goat anti-rabbit IgG- HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for TP53 at approximately 53KD. The expected band size for TP53 is at 44KD.

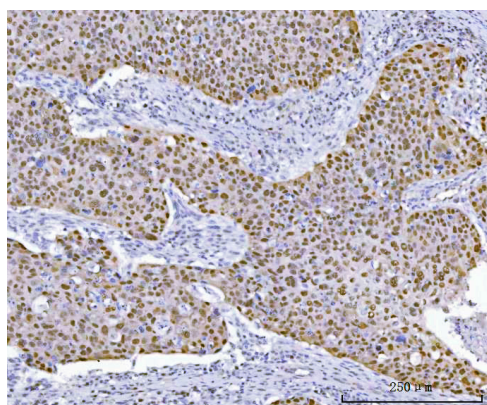


Figure 2. IHC analysis using anti- TP53 antibody (A00001-2). detected in paraffin-embedded section of human esophageal squamous carcinoma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

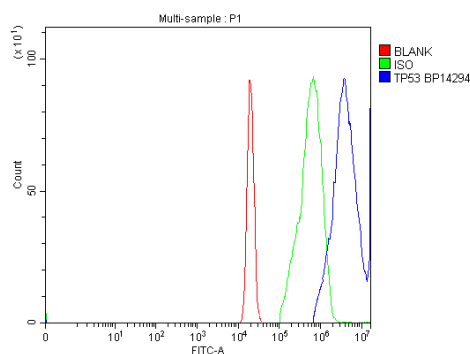


Figure 4. Flow cytometry analysis of A431 cell (1×10^6) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).