

Basic Information

Product Name	Anti-p63/TP63 Antibody	
Gene Name	TP63	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, IF, ICC/IF, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
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.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	75 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunofluorescence (IF):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 24 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

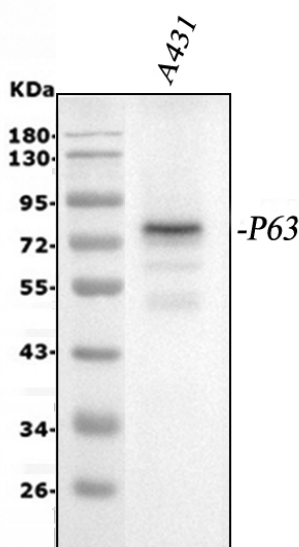
12 months from date of receipt, -20°C as supplied.

Background Information

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.

Selected Validation Data

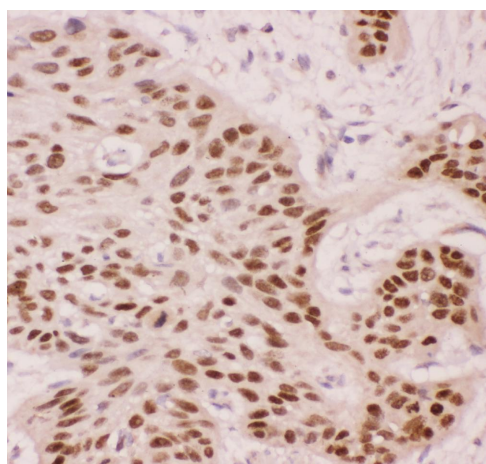


Western blot analysis of p63/TP63 using anti-p63/TP63 antibody (PB9152). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

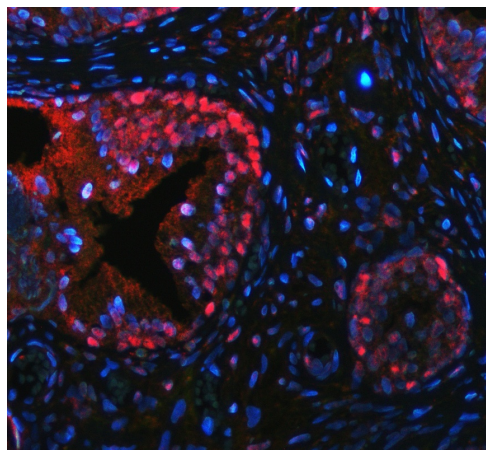
Lane 1: A431 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

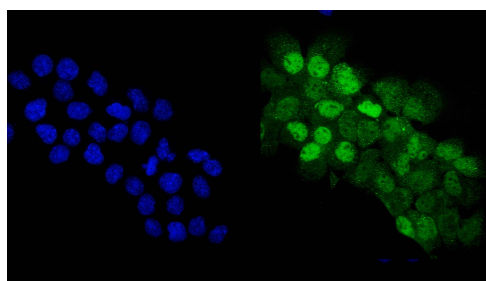
Then the membrane was incubated with rabbit anti-p63/TP63 antigen affinity purified polyclonal antibody (PB9152) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for p63/TP63 at approximately 75 kDa. The expected band size for p63/TP63 is at 77 kDa.



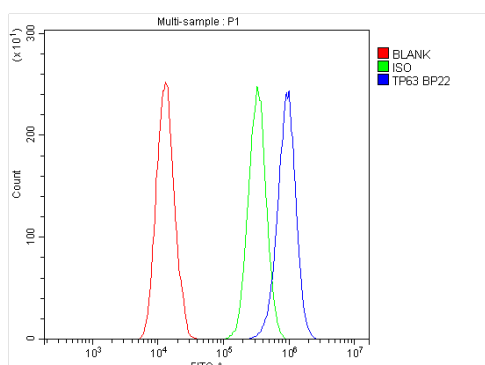
IHC analysis of p63/TP63 using anti-p63/TP63 antibody (PB9152). p63/TP63 was detected in a paraffin-embedded section of human oesophagus squama cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-p63/TP63 Antibody (PB9152) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of p63/TP63 using anti-p63/TP63 antibody (PB9152). p63/TP63 was detected in a paraffin-embedded section of human prostate hyperplasia tissue. The tissue section was incubated with rabbit anti-p63/TP63 Antibody (PB9152) at a dilution of 1:100. Cy3-conjugated Anti-rabbit IgG Secondary Antibody (red) (Catalog # BA1032) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



ICC/IF analysis of p63/TP63 using anti-p63/TP63 antibody (PB9152). p63/TP63 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-p63/TP63 Antibody (PB9152) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of A431 cells using anti-p63/TP63 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/TP63 Antibody (PB9152) at 1:100 dilution for 30 min at 20°C. Fluoro488 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.