

Basic Information

Product Name	Anti-SMC6 Antibody	
Gene Name	SMC6	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, IHC-F, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E. coli-derived human SMC6L1 recombinant protein (Position: D205-E443).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	126KD	
Dilution Ratios	Western blot(WB):	1:500-2000
	Immunohistochemistry in paraffin section (IHC):	1:50-400
	Immunohistochemistry in frozen section:	1:50-400
	Immunocytochemistry in fixed cells:	1:50-400
	Flow cytometry (FCM):	1-3 $\mu\text{g}/1 \times 10^6$ cells
	(ELISA):	1:100-1000
	(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

Structural maintenance of chromosomes protein 6, also known as SMC6L1, is a protein that in humans is encoded by the SMC6 gene. It is involved in the Alternative lengthening of telomeres cancer mechanism. The International Radiation Hybrid Mapping Consortium mapped the SMC6L1 gene to chromosome 2.

Reference

Anti-SMC6 Antibody被引用在1文献中。

Selected Validation Data

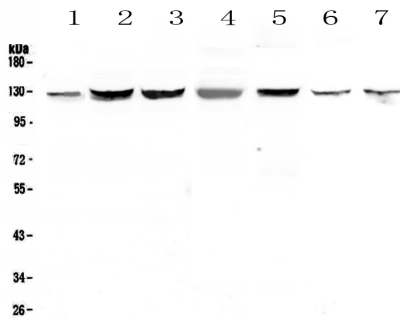


Figure 1. Western blot analysis of SMC6L1 using anti-SMC6L1 antibody (A01554-1). Lane 1: human Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human PANC-1 whole cell lysates, Lane 4: human SK-OV-3 whole cell lysates, Lane 5: human COLO-320 whole cell lysates, Lane 6: rat testis tissue lysates, Lane 7: mouse testis tissue lysates. anti-SMC6L1 antigen affinity purified polyclonal antibody (Catalog # A01554-1) 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 SMC6L1 at approximately 126 kDa. The expected band size for SMC6L1 is at 126 kDa.

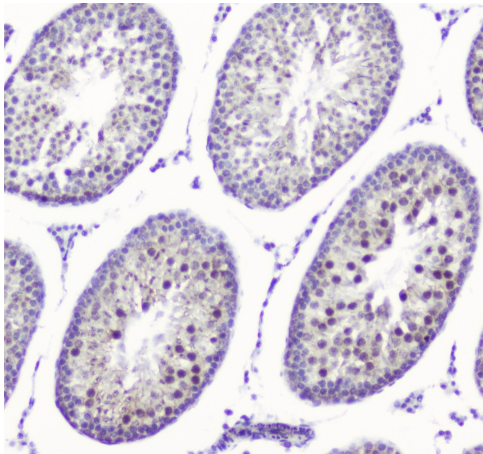


Figure 2. IHC analysis of SMC6L1 using anti-SMC6L1 antibody (A01554-1). SMC6L1 was detected in paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml rabbit anti-SMC6L1 Antibody (A01554-1). 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.

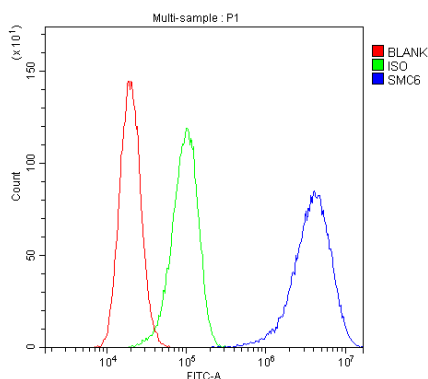


Figure 5. Flow Cytometry analysis of A431 cells using anti-SMC6L1 antibody (A01554-1). Overlay histogram showing A431 cells stained with A01554-1 (Blue line), anti-SMC6L1 Antibody A01554-1, 1 µg/1x10⁶ cells for 30 min at 20°C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 5-10 µg/1x10⁶ cells) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

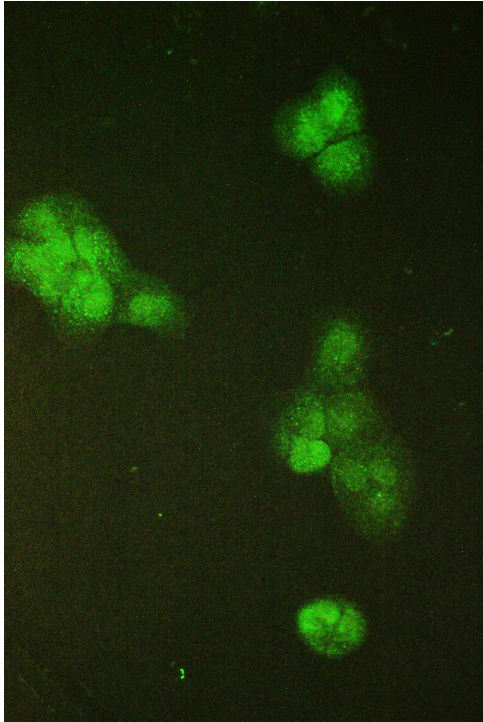


Figure 6. IF analysis of SMC6L1 using anti- SMC6L1 antibody (A01554-1).

SMC6L1 was detected in immunocytochemical section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) rabbit anti- SMC6L1 Antibody (A01554-1) . DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody Visualize using a fluorescence microscope and filter sets appropriate for the label used.