

Basic Information

Product Name	Anti-SMC6 Antibody	
Gene Name	SMC6	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, FCM, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human SMC6L1 recombinant protein (Position: D205-E443). Human SMC6L1 shares 94.6% and 90% amino acid (aa) sequence identity with mouse and rat SMC6L1, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	126 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (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.

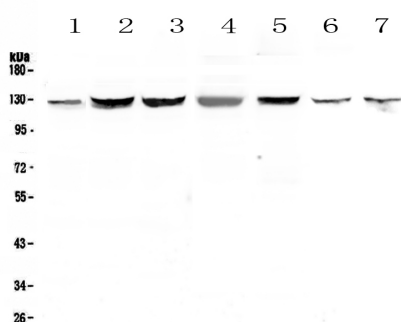
Background Information

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



Western blot analysis of SMC6 using anti-SMC6 antibody (A01554-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

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.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-SMC6 antigen

affinity purified polyclonal antibody (A01554-1) at a dilution of

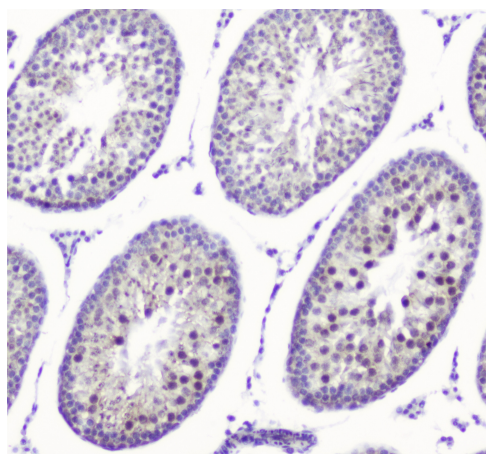
1:1000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for SMC6 at approximately 126 kDa. The expected band

size for SMC6 is at 126 kDa.



IHC analysis of SMC6 using anti-SMC6 antibody (A01554-1).

SMC6 was detected in a paraffin-embedded section of rat testis

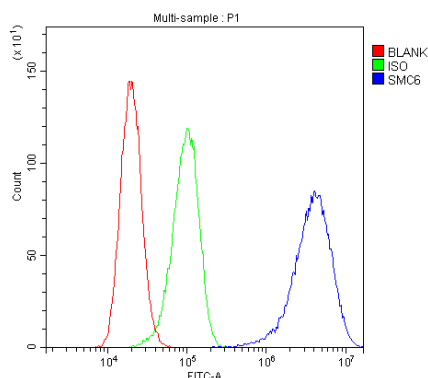
tissue. Biotinylated goat anti-rabbit IgG was used as secondary

antibody. The tissue section was incubated with rabbit anti-SMC6

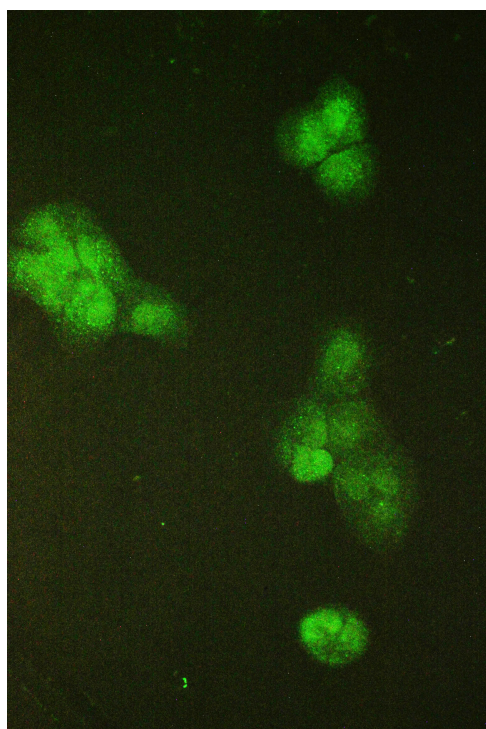
Antibody (A01554-1) at a dilution of 1:200 and developed using

Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB

(Catalog # AR1027) as the chromogen.



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, 1:100 for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody . Isotype control antibody (Green line) was rabbit IgG (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



ICC/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) . Fluoro488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody Visualize using a fluorescence microscope and filter sets appropriate for the label used.