

Rabbit Anti-SMC6/APC Conjugated antibody

SL7730R-APC

Product Name	Anti-SMC6/APC
Chinese Name	APC 标记的染色体结构维持蛋白 6 抗体
Alias	SMC6L1; SMC 6; SMC6; SMC6 protein; SMC6 structural maintenance of chromosomes 6 like 1; Structural maintenance of chromosomes 6; Structural maintenance of chromosomes 6 like 1; Structural maintenance of chromosomes protein 6.
Research Area	Cell biology Cyclin Cell differentiation Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Horse,Rabbit,Sheep) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	126 kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human SMC6
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: SMC5/6 complex is recruited to nuclease induced double strand breaks (DSBs) and is required for the recruitment of cohesin to DSBs. The human SMC5/6 complex and the SUMO ligase activity of hMMS21 are required for the prevention of DNA damage induced apoptosis by facilitating DNA repair in human cells.

Function:

Core component of the SMC5-SMC6 complex, a complex involved in DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). Required for recruitment of telomeres to PML nuclear bodies.

Subunit:

Forms a heterodimer with SMC5. Component of the SMC5-SMC6 complex which consists at least of SMC5, SMC6, NSMCE2, NSMCE1, NSMCE4A or EID3 and NDNL2.

Subcellular Location:

Cytoplasm. Nucleus.

Tissue Specificity:

Widely expressed. Overexpressed in testis.

Post-translational modifications:

Ubiquitinated.

Similarity:

Belongs to the SMC family. SMC6 subfamily.

Database links:

UniProtKB/Swiss-Prot: Q96SB8.2

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.