



SMC4 mouse mAb

Catalog No	YP-mAb-18011
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SMC4 CAPC SMC4L1
Immunogen	Synthesized peptide derived from human SMC4
Specificity	This antibody detects endogenous levels of SMC4 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CAP C;CAPC;Chromosome-associated polypeptide C;hCAP C;hCAPC;SMC4; SMC4 CAPC SMC4L1;Structural maintenance of chromosomes protein 4 (SMC protein 4) (SMC-4) (Chromosome-associated polypeptide C) (hCAP-C) (XCAP-C homolog)
Observed Band	147-150 kDa
Calculated Molecular Weight	1288 aa, 147 kDa
Cell Pathway	Nucleus . Cytoplasm . Chromosome . In interphase cells, the majority of the condensin complex is found in the cytoplasm, while a minority of the complex is associated with chromatin. A subpopulation of the complex however remains associated with chromosome foci in interphase cells. During mitosis, most of the condensin complex is associated with the chromatin. At the onset of prophase, the regulatory subunits of the complex are phosphorylated by CDC2, leading to condensin's association with chromosome arms and to chromosome condensation. Dissociation from chromosomes is observed in late telophase.
Tissue Specificity	Widely expressed. Higher expression in testis, colon, thymus.
Function	Central component of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed



DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases.

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images