



Rabbit Anti-SMC3 monoclonal antibody, clone KN21-86 (CABT-L918)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	SMC3
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	KN21-86
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, FC
Cellular Localization	Nucleus. Chromosome.
Positive Control	HepG2, NIH-3T3, PC12, Hela, human tonsil tissue, human colon cancer tissue, human kidney tissue, mouse colon tissue, zebrafish tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

The SMC (structural maintenance of chromosomes) family of proteins form heterodimeric complexes that modulate sister chromatid cohesion and chromosome condensation for mitosis. The two distinct classes of SMC protein complexes are comprised of SMC1 (also designated SB1.8) with SMC3 (also designated HCAP for human chromosome-associated protein and Bamacan for the secreted proteoglycan), and SMC2 (also designated hCAP-E) with SMC4 (also designated hCAP-C). The SMC1/SMC3 complex is required for metaphase progression in mitotic cells and functions independently of the SMC2/SMC4 complex during the cell cycle. SMC1 is ubiquitously expressed in various human tissues, including thymus, testis, and colon. SMC3 is expressed as a nuclear protein in the colon, but can also occur as a secreted proteoglycan expressed in testis and brain. The secreted proteoglycan contains several glycosylation sites and is thought to play a role in basement membrane physiology.

Keywords

BAM;Bamacan;Basement membrane associated chondroitin proteoglycan;Basement membrane-associated chondroitin proteoglycan;BMH;CDLS3;chondroitin sulfate proteoglycan 6 (bamacan);Chondroitin sulfate proteoglycan 6;Chromosome associated polypeptide;Chromosome-associated polypeptide;CSPG 6;CSPG6;hCAP;Human chromosome associated polypeptide;im:7142991;SMC 3;SMC protein 3;SMC-3;smc3;SMC3_HUMAN;SMC3L1;Structural maintenance of chromosome 3;Structural maintenance of chromosomes 3;Structural maintenance of chromosomes protein 3;u:fb22e01;wu:fc30d07 antibody
