



Anti-SMC3 (full length) polyclonal antibody (CPBT-44813MH)

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

PRODUCT INFORMATION

Product Overview	Mouse Polyclonal antibody to Human SMC3.
Antigen Description	This gene belongs to the SMC3 subfamily of SMC proteins. The encoded protein occurs in certain cell types as either an intracellular, nuclear protein or a secreted protein. The nuclear form, known as structural maintenance of chromosomes 3, is a component of the multimeric cohesin complex that holds together sister chromatids during mitosis, enabling proper chromosome segregation. Post-translational modification of the encoded protein by the addition of chondroitin sulfate chains gives rise to the secreted proteoglycan bamacan, an abundant basement membrane protein.
Immunogen	Full length human SMC3 protein (AAH47324).
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Purification	Protein A purified
Conjugate	Unconjugated
Applications	WB, ICC/IF
Sequence Similarities	Belongs to the SMC family. SMC3 subfamily.
Cellular Localization	Nucleus. Chromosome. Chromosome # centromere. Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK, except at cent
Format	Liquid

Size	50 µg
Buffer	Preservative: None Constituents: 1X PBS, pH 7.2
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	SMC3 structural maintenance of chromosomes 3 [Homo sapiens]
Official Symbol	SMC3
Synonyms	SMC3; structural maintenance of chromosomes 3; chondroitin sulfate proteoglycan 6 (bamacan) , CSPG6; structural maintenance of chromosomes protein 3; BAM; bamacan; bamacan proteoglycan; HCAP; SMC3L1; Basement membrane associated chondroitin proteoglycan; Chromosome associated polypeptide; BAM; Bamacan; Basement membrane-associated chondroitin proteoglycan; BMH; CDLS3; chondroitin sulfate proteoglycan 6 (bamacan); Chondroitin sulfate proteoglycan 6; Chromosome-associated polypeptide; CSPG 6; CSPG6; hCAP; SMC 3; SMC protein 3; SMC-3; smc3; SMC3_HUMAN; SMC3L1; Structural maintenance of chromosome 3; Structural maintenance of chromosomes protein 3; SMC-3; SMC protein 3; OTTHUMP00000020477; chromosome-associated polypeptide; chondroitin sulfate proteoglycan 6 (bamacan); basement membrane-associated chondroitin proteoglycan; BMH; CDLS3; CSPG6;
Entrez Gene ID	9126
Protein Refseq	NP_005436
UniProt ID	Q9UQE7
Chromosome Location	10q25
Pathway	Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; DNA Replication, organism-specific biosystem; M Phase, organism-specific biosystem; Meiosis, organism-specific biosystem; Meiotic Synapsis, organism-specific biosystem; Mitotic M-M/G1 phases, organism-specific biosystem; Mitotic Metaphase/Anaphase Transition, organism-specific biosystem; Mitotic Prometaphase, organism-specific biosystem; Oocyte meiosis, organism-specific bi
Function	ATP binding; dynein binding; microtubule motor activity; nucleotide binding; protein binding; protein heterodimerization activity;