



Rabbit Anti-Human SMC3 Polyclonal Antibody (CABT-L2125)

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

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Structural Maintenance Of Chromosomes Protein 3 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against SMC3. It has been selected for its ability to recognize SMC3 in immunohistochemical staining and western blotting.
Target	SMC3
Immunogen	Recombinant fragment corresponding to human SMC3 (Ser994~Glu1181)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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. [provided by RefSeq, Jul 2008]
Keywords	BMH;BAM;CSPG6;HCAP;SMC3L1;Chondroitin Sulfate Proteoglycan 6;Bamacan;Basement membrane-associated chondroitin proteoglycan;Chromosome-associated peptide

GENE INFORMATION

Gene Name	SMC3 structural maintenance of chromosomes 3 [Homo sapiens (human)]
Official Symbol	SMC3
Synonyms	SMC3; structural maintenance of chromosomes 3; BAM; BMH; HCAP; CDLS3; CSPG6; SMC3L1; structural maintenance of chromosomes protein 3; SMC protein 3; chromosome-associated polypeptide; chondroitin sulfate proteoglycan 6 (bamacan); basement membrane-associated chondroitin proteoglycan;
Entrez Gene ID	9126
Protein Refseq	NP_005436
UniProt ID	Q9UQE7
Chromosome Location	10q25
Pathway	Cell Cycle; Cell Cycle, Mitotic; Cell cycle; Cohesin Loading onto Chromatin; Establishment of Sister Chromatid Cohesion; M Phase; Meiosis; Meiotic synapsis;
Function	ATP binding; chromatin binding; dynein binding; mediator complex binding; microtubule motor activity; protein binding; protein heterodimerization activity;