



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

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Structural Maintenance Of Chromosomes Protein 3 (Knockout Validated)
<b>Specificity</b>	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.
<b>Target</b>	SMC3
<b>Immunogen</b>	Recombinant fragment corresponding to human SMC3 (Ser994~Glu1181)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg
<b>Buffer</b>	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
<b>Preservative</b>	0.05% Proclin-300

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

## BACKGROUND

<b>Introduction</b>	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]
<b>Keywords</b>	BMH;BAM;CSPG6;HCAP;SMC3L1;Chondroitin Sulfate Proteoglycan 6;Bamacan;Basement membrane-associated chondroitin proteoglycan;Chromosome-associated peptide

## GENE INFORMATION

<b>Gene Name</b>	SMC3 structural maintenance of chromosomes 3 [ Homo sapiens (human) ]
<b>Official Symbol</b>	SMC3
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">9126</a>
<b>Protein Refseq</b>	NP_005436
<b>UniProt ID</b>	<a href="#">Q9UQE7</a>
<b>Chromosome Location</b>	10q25
<b>Pathway</b>	Cell Cycle; Cell Cycle, Mitotic; Cell cycle; Cohesin Loading onto Chromatin; Establishment of Sister Chromatid Cohesion; M Phase; Meiosis; Meiotic synapsis;
<b>Function</b>	ATP binding; chromatin binding; dynein binding; mediator complex binding; microtubule motor activity; protein binding; protein heterodimerization activity;