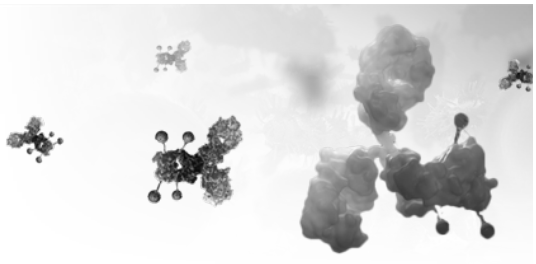

Human SMC3 peptide (DAG-P1963)

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

PRODUCT INFORMATION

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. [provided by RefSeq, Jul 2008]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the SMC family. SMC3 subfamily.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

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;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Entrez Gene ID	9126
mRNA Refseq	NM_005445.3
Protein Refseq	NP_005436.1
UniProt ID	Q9UQE7
Chromosome Location	10q25
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chromosome Maintenance, organism-specific biosystem; Cohesin Loading onto Chromatin, organism-specific biosystem; Establishment of Sister Chromatid Cohesion, organism-specific biosystem; M Phase, organism-specific biosystem; Meiosis, organism-specific biosystem; Meiotic Synapsis, organism-specific biosystem; Mitotic Anaphase, organis
Function	ATP binding; chromatin binding; dynein binding; mediator complex binding; microtubule motor activity; protein binding; protein heterodimerization activity;

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