

Recombinant Human SMC1A 293 Cell Lysate

Cat. No. SMC1A-1666HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for structural maintenance of chromosomes 1A (SMC1A) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[SMC1A structural maintenance of chromosomes 1A \[Homo sapiens \]](#)

Official Symbol

SMC1A

Synonyms

SMC1A; structural maintenance of chromosomes 1A; SMC1 (structural maintenance of chromosomes 1, yeast) like 1 , SMC1 structural maintenance of chromosomes 1 like 1 (yeast) , SMC1L1; structural maintenance of chromosomes protein 1A; DXS423E; KIAA0178; SB1.8; Smcb; SMC-1A; SMC-1-alpha; SMC protein 1A; segregation of mitotic chromosomes 1; SMC1 structural maintenance of chromosomes 1-like 1; SMC1 (structural maintenance of chromosomes 1, yeast)-like 1; SMC1; SMCB; CDLS2; SMC1L1; SMC1alpha; MGC138332; DKFZp686L19178;

Gene ID

[8243](#)

mRNA Refseq

[NM_006306](#)

Protein Refseq

[NP_006297](#)

MIM

[300040](#)

UniProt ID

[Q14683](#)

Chromosome Location

Xp11.22-p11.21

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Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Replication, organism-specific biosystem;
Function	ATP binding; chromatin binding; microtubule motor activity; nucleotide binding; protein binding; protein heterodimerization activity;

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