

Recombinant Human SPO11 cell lysate

Cat. No. SPO11-1684HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	Meiotic recombination and chromosome segregation require the formation of double-strand breaks (DSBs) in paired chromosome homologs. During meiosis in yeast, a meiotic recombination protein is covalently-linked to the 5 end of DSBs and is essential for the formation of DSBs. The protein encoded by this gene is similar in sequence and conserved features to the yeast meiotic recombination protein. The encoded protein belongs to the TOP6A protein family. Several transcript variants encoding different isoforms have been found for this gene, but the full-length nature of only two of them have been described.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	SPO11 SPO11 meiotic protein covalently bound to DSB homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
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 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

Official Symbol	SPO11
Synonyms	SPO11; SPO11 meiotic protein covalently bound to DSB homolog (S. cerevisiae); SPO11 meiotic protein covalently bound to DSB like (S. cerevisiae) , SPO11, meiotic protein covalently bound to DSB (S. cerevisiae) like; meiotic recombination protein SPO11; cancer/testis antigen 35; CT35; MGC39953;
Gene ID	23626
mRNA Refseq	NM_012444
Protein Refseq	NP_036576
MIM	605114
UniProt ID	Q9Y5K1
Chromosome Location	20q13.31
Pathway	Meiosis, organism-specific biosystem; Meiotic Recombination, organism-specific biosystem;
Function	ATP binding; DNA binding; catalytic activity; hydrolase activity;