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SPO11 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP17609b

Specification

SPO11 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9Y5K1

SPO11 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 23626

Other Names
Meiotic recombination protein SPO11, Cancer/testis antigen 35, CT35, SPO11

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SPO11 Antibody (C-term) Blocking Peptide - Protein Information

Name SPO11

Function
Component of a topoisomerase 6 complex specifically required for meiotic recombination. Together with TOP6BL, mediates DNA cleavage that forms the double-strand breaks (DSB) that initiate meiotic recombination. The complex promotes relaxation of negative and positive supercoiled DNA and DNA decatenation through cleavage and ligation cycles. Essential for the phosphorylation of SMC3, HORMAD1 and HORMAD2.

Cellular Location
Nucleus.

Tissue Location
Highly expressed in testis.

SPO11 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SPO11 Antibody (C-term) Blocking Peptide - Images

SPO11 Antibody (C-term) Blocking Peptide - Background

Meiotic recombination and chromosome segregation requirethe formation of double-strand breaks (DSBs) in paired chromosomehomologs. During meiosis in yeast, a meiotic recombination proteinis covalently-linked to the 5' end of DSBs and is essential for theformation of DSBs. The protein encoded by this gene is similar insequence and conserved features to the yeast meiotic recombinationprotein. The encoded protein belongs to the TOP6A protein family.Several transcript variants encoding different isoforms have beenfound for this gene, but the full-length nature of only two of themhave been described.

SPO11 Antibody (C-term) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Aston, K.I., et al. Hum. Reprod. 25(6):1383-1397(2010)Mandon-Pepin, B., et al. Eur. J. Endocrinol. 158(1):107-115(2008)Christensen, G.L., et al. Fertil. Steril. 84(3):758-760(2005)Deloukas, P., et al. Nature 414(6866):865-871(2001)