

SPO11 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17609b**Specification**

SPO11 Antibody (C-term) Blocking Peptide - Product InformationPrimary 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 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.

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)