

SPO11 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2939a**Specification**

SPO11 Antibody (internal region) - Product Information

Application	WB
Primary Accession	Q9Y5K1
Other Accession	NP_036576.1 , NP_937998.1 , 23626
Reactivity	Human
Predicted	Mouse
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	44537

SPO11 Antibody (internal region) - Additional Information**Gene ID** 23626**Other Names**

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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SPO11 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

SPO11 Antibody (internal region) - 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 (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SPO11 Antibody (internal region) - Images

AF2939a (1 µg/ml) staining of Human Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

SPO11 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_036576.1; NP_937998.1)

SPO11 Antibody (internal region) - References

Mapping meiotic single-strand DNA reveals a new landscape of DNA double-strand breaks in *Saccharomyces cerevisiae* Buhler C, Borde V, Lichten M PLoS Biol. 2007 Dec;5(12):e324 PMID: 18076285