bs-9302R **[Primary Antibody]**

SPO11 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 23626 **SWISS:** Q9Y5K1

Target: SPO11

Immunogen: KLH conjugated synthetic peptide derived from human SPO11: 151-330/396.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Spo11 is a type II topoisomerase that is thought to generate the chromosome breaks that initiate meiotic recombination. The Spo11 protein initiates meiotic recombination by generating DNA double-strand breaks (DSBs) and is required for meiotic synapsis in S. cerevisiae. The DSBs are located mostly in promoter regions, where the chromatin is in an open configuration, and cluster in domains along the chromosome. Expression of the Spo11 is detected mainly in the testis, in agreement with its predicted function in the initiation of meiotic recombination. Disruption of Spo11 leads to severe gonadal abnormalities from defective meiosis and results in infertility.

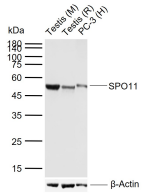
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat (predicted: Pig, Dog, Horse)

Predicted MW.: 45 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Lane 1: Mouse Testis tissue lysates Lane 2: Rat Testis tissue lysates Lane 3: Human PC-3 cell lysates Primary: Anti-SPO11 (bs-9302R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kDa Observed band size: 48 kDa

SELECTED CITATIONS

- **[IF=2.4]** Qianwen Chang. et al. Elevated temperature affects the expression of signaling molecules in quail testes meiosis I prophase, but spermatogenesis remains normal. THERIOGENOLOGY. 2024 Aug;: IHC,WB ;Quail. 39142066