



SPO11 polyclonal antibody

Catalog: BS35038

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

Meiotic recombination protein SPO11: DNA endonuclease, which specifically mediates DNA cleavage that forms the double-strand breaks (DSB) that initiate meiotic recombination. SPO11 covalently attaches itself to the 5' DNA strand during DSB formation and each strand is cleaved by a composite active site assembled at the interface of two SPO11 monomers, with the two cleavages staggered to produce a two-nucleotide 5' overhang. SPO11 cleavage site selection is driven by a mild sequence bias and a preference for bendable and underwound DNA. Together with TOP6BL, promotes relaxation of negative and positive supercoiled DNA and DNA decatenation through cleavage and ligation cycles. Required for the phosphorylation of SMC3, HORMAD1 and HORMAD2

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~44.5 kDa

Swiss-Prot:

Q9Y5K1

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of SPO11 protein

DATA:

Western blot analysis of PFKFB1 expression in Jurkat (A) whole cell lysates.

Immunohistochemical analysis of PFKFB1 staining in human hepatocarcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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