

PH0294
SMC5 Antibody



- 50ul
- 100 uL

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Background:

Core component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). Required for recruitment of telomeres to PML nuclear bodies. Required for sister chromatid cohesion during prometaphase and mitotic progression; the function seems to be independent of SMC6. SMC5-SMC6 complex may prevent transcription of episomal DNA, such as circular viral DNA genome (PubMed:26983541).

Alternative Names:

SMC5 antibody; KIAA0594 antibody; SMC5L1 antibody; Structural maintenance of chromosomes protein 5 antibody; SMC protein 5 antibody; SMC-5 antibody; hSMC5 antibody

Product Type : Polyclonal Antibody

Uniprot : Q8IY18

Mol.Wt. : 128.806 kDa ;

Immunogen:

Recombinant Human Structural maintenance of chromosomes protein 5 protein (296-403AA)

Host Species : Rabbit

Species Reactivity : Human

Applications:

ELISA, WB;

Recommended dilution:

WB:1:500-1:5000

Isotype : IgG

Buffer:

Preservative: 0.03% Proclin 300

Constituents: 50% Glycerol, 0.01M PBS, pH 7.4

Form : Liquid

Purification Method : >95%, Protein G purified

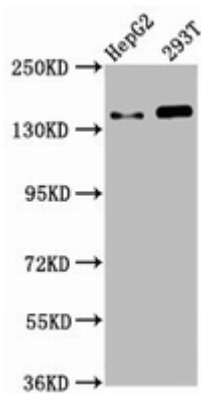
Research Areas:

Epigenetics and Nuclear Signaling; Cell biology

Storage:

Upon receipt, Store at -20°C. Do not aliquot the antibody

Images:



Western Blot

Positive WB detected in: HepG2 whole cell lysate, 293T whole cell lysate

All lanes: SMC5 antibody at 4.6µg/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 129 kDa

Observed band size: 145 kDa