

染色体结构维持蛋白 5 抗体

产品货号： mlR7729

英文名称： SMC5

中文名称： 染色体结构维持蛋白 5 抗体

别名： hSMC 5; hSMC5; SMC 5 SMC 5 structural maintenance of chromosomes 5 like 1 SMC5 L1 SMC5 protein SMC5 structural maintenance of chromosomes 5 like 1 SMC5L1 Structural maintenance of chromosomes 5 like 1 Structural maintenance of chromosomes protein 5; SMC5_HUMAN.

研究领域： 细胞生物 细胞周期蛋白 细胞分化 表观遗传学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Rabbit,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量 : 145kDa

细胞定位 : 细胞核

性 状 : Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human SMC5:251-350/1101

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed : PubMed

产品介绍： Structural Maintenance of Chromosomes (SMC) family proteins play critical roles in various nuclear events that require structural changes of chromosomes, including mitotic chromosome organization, DNA recombination and repair and global transcriptional repression. The chromosome proteins are conserved in eukaryotes lead to mitotic chromosome segregation defects, suggesting a critical function of SMC family proteins in mitotic chromosome dynamics.

Function:

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.

Subunit:

Forms a heterodimer with SMC6. Component of the SMC5-SMC6 complex which consists at least of SMC5, SMC6, NSMCE2, NSMCE1, NSMCE4A or EID3 and NDNL2.

Subcellular Location:

Nucleus. Chromosome. Chromosome, telomere. Note=Associates with chromatin. Localizes to PML nuclear bodies in ALT cell lines.

Tissue Specificity:

Widely expressed.

Post-translational modifications:

Ubiquitinated.

Similarity:

Belongs to the SMC family. SMC5 subfamily.

SWISS:

Q8IY18

Gene ID:

23137

Database links:

UniProtKB/Swiss-Prot: Q8IY18.2

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.