

For Research Use Only

SMC6 Recombinant antibody

Catalog Number: 83187-3-RR



Basic Information

Catalog Number:

83187-3-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6898

GenBank Accession Number:

BC039828

GeneID (NCBI):

79677

UNIPROT ID:

Q965B8

Full Name:

structural maintenance of chromosomes 6

Calculated MW:

126 kDa

Observed MW:

130 kDa

Purification Method:

Protein A purification

CloneNo.:

240015F4

Recommended Dilutions:

WB 1:5000-1:50000

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IF-P, FC (Intra), ELISA

Species Specificity:

human, mouse

Positive Controls:

WB: HeLa cells, human testis tissue, NIH/3T3 cells, HEK-293 cells

IF-P: mouse testis tissue,

Background Information

SMC6 (Structural maintenance of chromosomes protein 6) is core component of the SMC5-SMC6 complex that is involved in 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) (PMID: 26983541).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

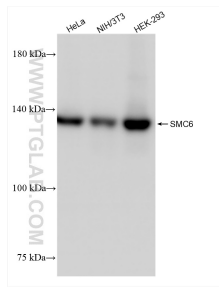
T: 4006900926

E: Proteintech-CN@ptglab.com

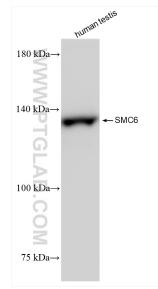
W: ptgcn.com

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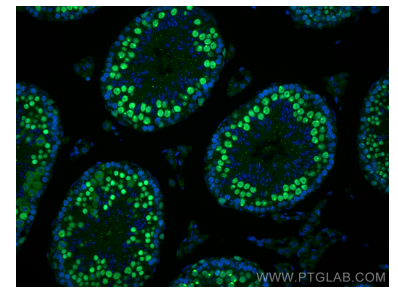
Selected Validation Data



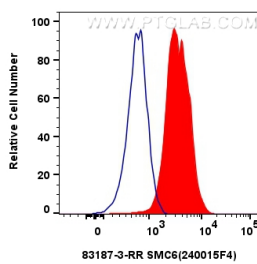
Various lysates were subjected to SDS PAGE followed by western blot with 83187-3-RR (SMC6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



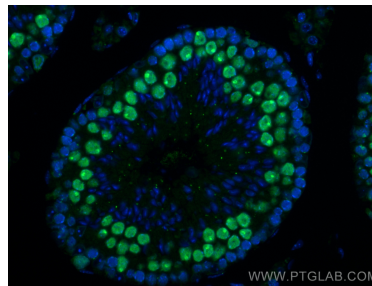
human testis tissue were subjected to SDS PAGE followed by western blot with 83187-3-RR (SMC6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



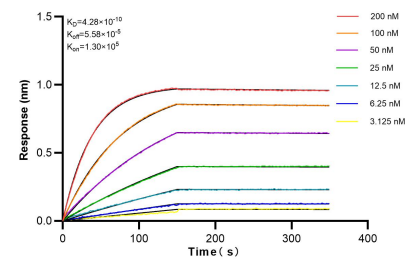
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using SMC6 antibody (83187-3-RR, Clone: 240015F4) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 A431 cells were intracellularly stained with 0.25 μ g SMC6 Recombinant antibody (83187-3-RR, Clone:240015F4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 μ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using SMC6 antibody (83187-3-RR, Clone: 240015F4) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 83187-3-RR against Human SMC6 were performed. The affinity constant is 0.428 nM.