

AP0090

Leader in Biomolecular Solutions for Life Science



Phospho-SMC1-S957 Rabbit pAb

Catalog No.: AP0090

Basic Information

Observed MW

160kDa

Calculated MW

143kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,IP,ELISA

Cross-Reactivity

Human,Mouse,Rat

Background

Proper cohesion of sister chromatids is a prerequisite for the correct segregation of chromosomes during cell division. The cohesin multiprotein complex is required for sister chromatid cohesion. This complex is composed partly of two structural maintenance of chromosomes (SMC) proteins, SMC3 and either SMC1B or the protein encoded by this gene. Most of the cohesin complexes dissociate from the chromosomes before mitosis, although those complexes at the kinetochore remain. Therefore, the encoded protein is thought to be an important part of functional kinetochores. In addition, this protein interacts with BRCA1 and is phosphorylated by ATM, indicating a potential role for this protein in DNA repair. This gene, which belongs to the SMC gene family, is located in an area of the X-chromosome that escapes X inactivation. Mutations in this gene result in Cornelia de Lange syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms.

Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:50 - 1:200

IP 0.5µg-4µg antibody for
200µg-400µg extracts
of whole cells

ELISA Recommended starting
concentration is 1
µg/mL. Please optimize
the concentration
based on your specific
assay requirements.

Contact

 www.abclonal.com

Immunogen Information

Gene ID

8243

Swiss Prot

Q14683

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

SMC1; SMCB; CDLS2; DEE85; SB1.8; EIEE85; SMC1L1; DXS423E; SMC1alpha; Phospho-SMC1-S957

Product Information

Source

Rabbit

Isotype

IgG

Purification

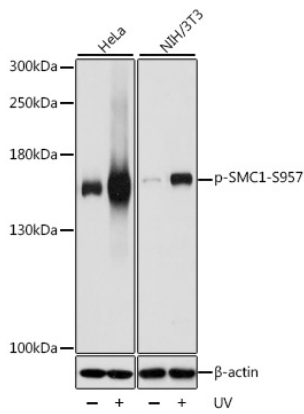
Affinity purification

Storage

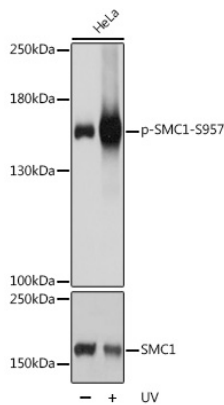
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

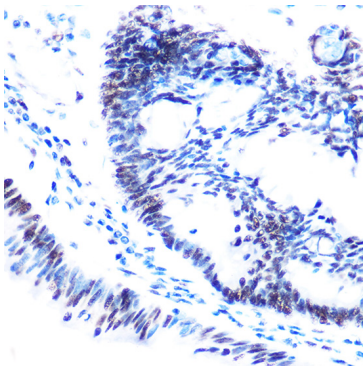
Validation Data



Western blot analysis of various lysates, using Phospho-SMC1-S957 Rabbit pAb (AP0090) at 1:1000 dilution. HeLa and NIH/3T3 cells were treated with UV at room temperature for 15-30 minutes.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.

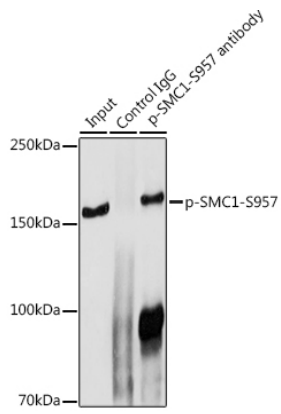


Western blot analysis of lysates from HeLa cells, using Phospho-SMC1-S957 Rabbit pAb (A7008). HeLa cells were treated with UV at room temperature for 15-30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using Phospho-SMC1-S957 Rabbit pAb (AP0090) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunoprecipitation analysis of 300 μ g extracts of HeLa cells using 3 μ g Phospho-SMC1-S957 antibody (AP0090). Western blot was performed from the immunoprecipitate using Phospho-SMC1-S957 antibody (AP0090) at a dilution of 1:1000.