Date of Submission: 9/13/12

Name: Trupti Kawli  Email: trupti@stanford.edu

Lab: Snyder

Antibody Name: Anti-SMC3 antibody - ChIP Grade  Target: SMC3

Company/Source: Abcam

Lot Number: 963667

Catalog Number, database ID, laboratory: ab9263

Antibody Description: Synthetic peptide (Human) conjugated to KLH - which represents a portion within the last 100 amino acids of the human Structural Maintenance of Chromosomes-3 (GenBank PID 4685399), conjugated to KLH.

Target Description: This gene belongs to the SMC3 subfamily of SMC proteins. The encoded protein occurs in certain cell types as either an intracellular nuclear protein, or a secreted protein. The nuclear form is known as SMC3, structural maintenance of chromosomes 3, and is a component of the cohesin complex that holds sister chromatids together during mitosis. The secreted form, known as bamacan, is a basement membrane protein.

Species Target: Mouse  Species Host: Rabbit

Validation Method #1: Immunoprecipitation  Validation Method #2: ChIP

Purification Method: Affinity  Polyclonal/
Monoclonal: Polyclonal

Vendor URL:

Reference (PI/Publication Information):

Please complete the following for antibodies to histone modifications:

if your specifications are not listed in the drop-down box,
please write-in the appropriate information

Histone Name  AA modified  AA Position  Modification
A band consistent with the expected size of SMC3 (145 kD) is efficiently immunoprecipitated from a CH12 and MEL nuclear lysate using antibody ab9263. This antibody has been validated for human cell lines using Immunoprecipitation and ChIP.
Validation 1: Immunoprecipitation (IP) in both CH12 and MEL cell lines

The expected size of SMC3 in both CH12 and MEL cell lines (~145 kDa) is indicated by the immunoprecipitated band of SMC3. The arrow indicates the position of the band corresponding to SMC3.

Validation 2: Nuclear extract (NE) and supernatant after IP (S) are shown for both CH12 and MEL cell lines.

**Epitope** for the SMC3 antibody (Abcam ab9263) is the last 100 amino acids of the human SMC3 protein.
The antibody ab9263 has been validated by ChIP-Seq for human cell lines. Please see validation documents for human cell lines for details.