

## SMC 1 polyclonal antibody

Catalog: BS8644

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

The SMC (structural maintenance of chromosomes) family of proteins form heterodimeric complexes that modulate sister chromatid cohesion and chromosome condensation for mitosis. The two distinct classes of SMC protein complexes are comprised of SMC1 (also designated SB1.8) along with SMC3 (also designated HCAP for human chromosome-associated protein or Bama-can), and SMC2 (also designated hCAP-E) along with SMC4 (also designated hCAP-C). The SMC1/SMC3 complex is required for metaphase progression in mitotic cells and functions independently of the SMC2/SMC4 complex during the cell cycle. SMC1 is ubiquitously expressed in various human tissues, including thymus, testis and colon. SMC3 is expressed as a nuclear protein in the colon, but can also occur as a secreted proteoglycan (called Bamacan) expressed in testis and brain. Bamacan contains several glycosylation sites and is thought to play a role in basement membrane physiology.

### Product:

1mg/ml in PBS with 0.1% Sodium Azide, 50% Glycerol.

### Molecular Weight:

~ 143kDa

### Swiss-Prot:

Q14683

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:2000

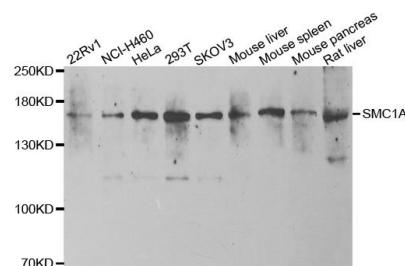
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

SMC 1 polyclonal antibody detects endogenous levels of SMC 1 protein.

### DATA:



Western blot analysis of extracts of various cell lines, using SMC1A antibody.

### Note:

For research use only, not for use in diagnostic procedure.

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