

## SMC3 recombinant antibody

Rabbit anti-SMC3 Recombinant Monoclonal Antibody [BLR099G]

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                        |
|-----------|--------|--------------|---------------------------------------------------------------------|
| AAA213575 | Rabbit | Human, Mouse | Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot |

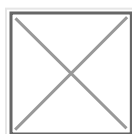
### PRODUCT SYNONYMS

SMC3; Monoclonal Recombinant Antibody; Rabbit anti-SMC3 Recombinant Monoclonal Antibody [BLR099G]; BAM; CSPG6; structural maintenance of chromosomes protein 3; SMC3L1; SMC-3; SMC protein 3; HCAP; chromosome-associated polypeptide; chondroitin sulfate proteoglycan 6 (bamacan); Chondroitin sulfate proteoglycan 6; CDLS3; BMH; Bamacan; basement membrane-associated chondroitin proteoglycan; Structural maintenance of chromosomes protein 3; structural maintenance of chromosomes 3; SMC3 recombinant antibody

### PRODUCT SPECIFICATIONS

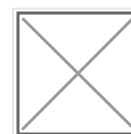
|                                                       |                                                                                          |
|-------------------------------------------------------|------------------------------------------------------------------------------------------|
| Host                                                  | Rabbit                                                                                   |
| Reactivity                                            | Human, Mouse                                                                             |
| Clonality                                             | Monoclonal                                                                               |
| Clone Number                                          | BLR099G                                                                                  |
| Purity/Purification                                   | Purified                                                                                 |
| Form/Format                                           | Liquid. Whole IgG. Borate Buffered Saline (BBS) pH 8.2 with 0.09% Sodium Azide, BSA-Free |
| Concentration                                         | 1000ug/ml (varies by lot)                                                                |
| Applicable Applications for SMC3 recombinant antibody | FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)                   |
| Immunogen                                             | Between 1167 and C-terminus                                                              |
| Conjugation                                           | Unconjugated                                                                             |
| Preparation and Storage                               | Store at 2-8 degree C<br>Shelf Life: 1 year from date of receipt                         |

### IMAGES



#### WB (Western Blot)

Detection of human SMC3 by western blot. Samples: Whole cell lysate (50 ug) from HEK293T, HeLa, Jurkat, LNCaP, A-549, MCF-7, and GaMG cells prepared using NETN lysis buffer. Antibody: Rabbit anti-SMC3 recombinant monoclonal antibody (AAA213575 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 10 seconds. Lower Panel: Rabbit anti-COPB2 antibody .



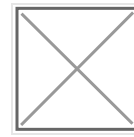
#### WB (Western Blot)

Detection of mouse SMC3 by western blot. Samples: Whole cell lysate (50 ug) from C2C12, 70Z/3, BW5147.3, CTLL-2, EL4, RenCa, NIH 3T3, TCMK-1, A20, Ba/F3, and CH27 cells prepared using NETN lysis buffer. Antibody: Rabbit anti-SMC3 recombinant monoclonal antibody (AAA213575 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 10 seconds. Lower Panel: Rabbit anti-COPB2 antibody .



#### IP (Immunoprecipitation)

Detection of human SMC3 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from 293T cells prepared using NETN lysis buffer. Antibodies: Rabbit anti-SMC3 recombinant monoclonal antibody (AAA213575 lot 1) used for IP at 6 ul per reaction. SMC3 was also immunoprecipitated by rabbit anti-SMC3 antibody. For blotting immunoprecipitated SMC3, AAA213575 was used at 1:1000. Detection: Chemiluminescence with an exposure time of 10 seconds.



#### FCM/FACS (Flow Cytometry)

Detection of human SMC3 (shaded) in HDLM-2 cells by flow cytometry. Antibody: Rabbit anti-SMC3 recombinant monoclonal antibody (AAA213575 lot 1) or isotype control (unshaded). Secondary: DyLight 488-conjugated goat anti-rabbit IgG.

## ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SMC3 recombinant antibody | SMC3 (structural maintenance of chromosomes 3) is a component of the cohesin complex which is critical for precise duplication and segregation of chromosomes. SMC3 heterodimerizes with SMC1 and associates with two non-SMC subunits, Rad21/Sccl and Sccl, to form the cohesin complex. |
| Product Categories/Family for SMC3 recombinant antibody   | Primary Antibodies                                                                                                                                                                                                                                                                        |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| NCBI GI #                        | 4885399                                                      |
| NCBI GeneID                      | 9126                                                         |
| NCBI Accession #                 | NP_005436.1                                                  |
| NCBI GenBank Nucleotide #        | NM_005445.3                                                  |
| UniProt Accession #              | Q9UQE7; O60464; Q5T482; A8K156                               |
| Molecular Weight                 | 141,542 Da                                                   |
| NCBI Official Full Name          | structural maintenance of chromosomes protein 3              |
| NCBI Official Synonym Full Names | structural maintenance of chromosomes 3                      |
| NCBI Official Symbol             | SMC3                                                         |
| NCBI Official Synonym Symbols    | BAM; BMH; HCAP; CDLS3; CSPG6; SMC3L1                         |
| NCBI Protein Information         | structural maintenance of chromosomes protein 3              |
| UniProt Protein Name             | Structural maintenance of chromosomes protein 3              |
| UniProt Gene Name                | <b>SMC3</b>                                                  |
| UniProt Synonym Gene Names       | BAM; BMH; CSPG6; SMC3L1; SMC protein 3; SMC-3; Bamacan; hCAP |
| UniProt Entry Name               | SMC3_HUMAN                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/smc3-recombinant-antibody-clone-blr099g-flow-cytometry-immunoprecipitation-western-blot-elisa/213575>