SMC3 Rabbit mAb

Catalog No: #49448

Package Size: #49448-1 50ul #49448-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

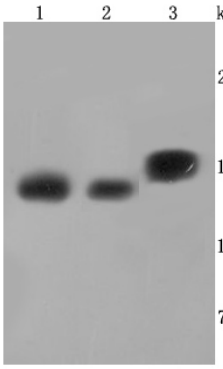
Description

Product Name	SMC3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JM10-75
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	BAM antibody Bamacan antibody Basement membrane associated chondroitin proteoglycan antibody Basement membrane-associated chondroitin proteoglycan antibody BMH antibody CDLS3 antibody chondroitin sulfate proteoglycan 6 (bamacan) antibody Chondroitin sulfate proteoglycan 6 antibody Chromosome associated polypeptide antibody Chromosome-associated polypeptide antibody CSPG 6 antibody CSPG6 antibody hCAP antibody Human chromosome associated polypeptide antibody im:7142991 antibody SMC 3 antibody SMC protein 3 antibody SMC-3 antibody smc3 antibody SMC3_HUMAN antibody SMC3L1 antibody Structural maintenance of chromosome 3 antibody Structural maintenance of chromosomes 3 antibody Structural maintenance of chromosomes protein 3 antibody u:fb22e01 antibody wu:fc30d07 antibody
Accession No.	Swiss-Prot#:Q9UQE7
Calculated MW	141 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

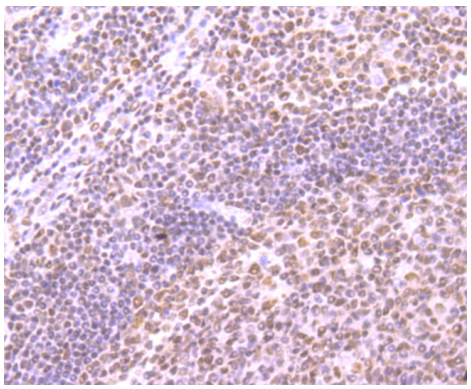
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

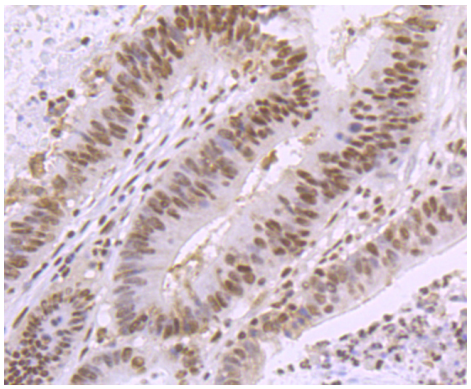
Images



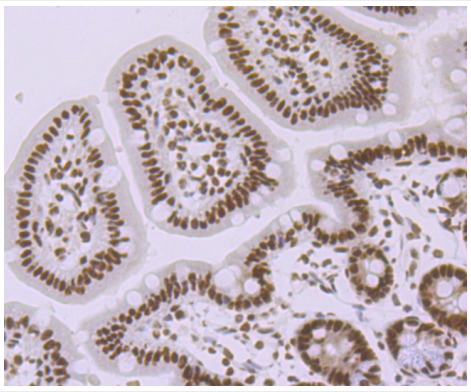
Western blot analysis of SMC3 on different cells lysates using anti-SMC3 antibody at 1/1,000 dilution. Positive control:
Line1: HepG2
Line2: NIH-3T3
Line3:PC12



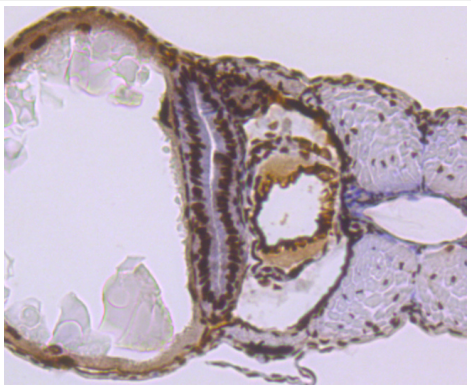
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-SMC3 antibody. Counter stained with hematoxylin.



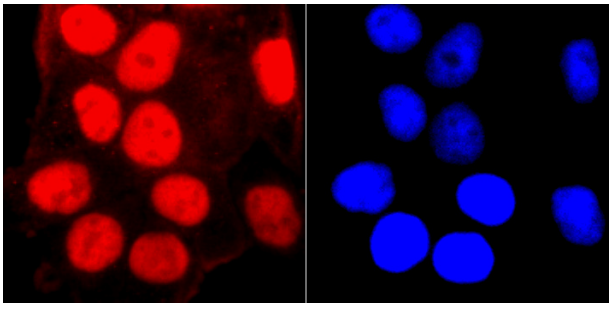
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-SMC3 antibody. Counter stained with hematoxylin.



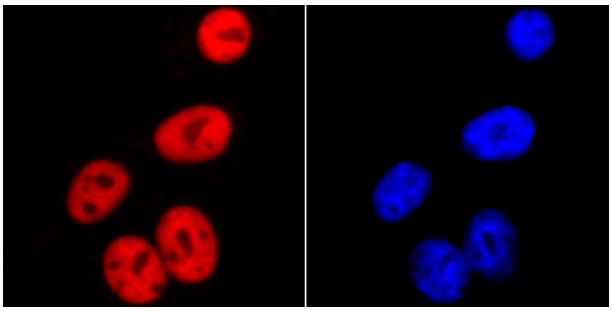
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-SMC3 antibody. Counter stained with hematoxylin.



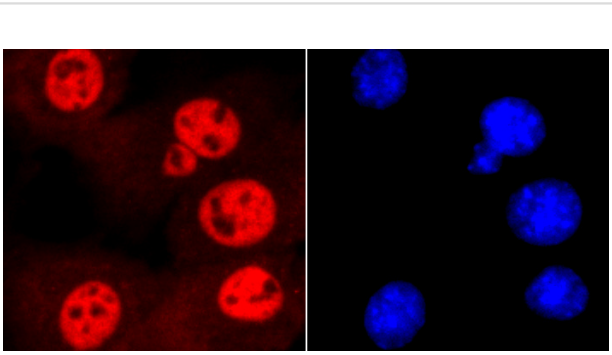
Immunohistochemical analysis of paraffin-embedded zebrafish tissue using anti-SMC3 antibody. Counter stained with hematoxylin.



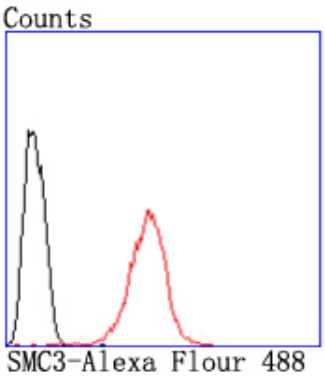
ICC staining SMC3 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining SMC3 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining SMC3 in NIH-3T3 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with SMC3 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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) with SMC3 (also designated HCAP for human chromosome-associated protein and Bamacan for the secreted proteoglycan), and SMC2 (also designated hCAP-E) 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 ubiqitiously 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 expressed in testis and brain. The secreted proteoglycan contains several glycosylation sites and is thought to play a role in basement membrane physiology.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.