

SMC3 Polyclonal Antibody | anti-SMC3 antibody

Anti-SMC3 Antibody

CATALOG # AAA46324	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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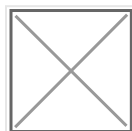
PRODUCT SYNONYMS

SMC3; Polyclonal Antibody; Anti-SMC3 Antibody; Structural maintenance of chromosomes protein 3; BAM; Bamacan; Basement membrane associated chondroitin proteoglycan; Basement membrane-associated chondroitin proteoglycan; BMH; CDLS3; chondroitin sulfate proteoglycan 6 (bamacan); Chondroitin sulfate proteoglycan 6; Chromosome associated polypeptide; Chromosome-associated polypeptide; CSPG 6; CSPG6; hCAP; SMC 3; SMC protein 3; SMC-3; smc3; SMC3_HUMAN; SMC3L1; Structural maintenance of chromosome 3; Structural maintenance of chromosomes 3; structural maintenance of chromosomes 3; anti-SMC3 antibody

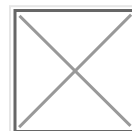
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	1217
Applicable Applications for anti-SMC3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SMC3 (1178-1216aa ELLESADKFYGVKFRNKVSHIDVITAEMAKDFVEDDTTH), identical to the related mouse sequence.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

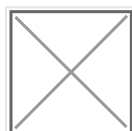
IMAGES



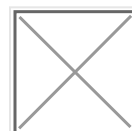
IHC (Immunohistochemistry)
Anti- SMC3 Picoband antibody, AAA46324, IHC(P)IHC(P): Human Intestinal Cancer Tissue



IHC (Immunohistochemistry)
Anti- SMC3 Picoband antibody, AAA46324, IHC(P)IHC(P): Rat Kidney Tissue



IHC (Immunohistochemistry)
Anti- SMC3 Picoband antibody, AAA46324, IHC(P)IHC(P): Mouse Intestine Tissue



WB (Western Blot)
Anti- SMC3 Picoband antibody, AAA46324, Western blotting
All lanes: Anti SMC3 (AAA46324) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Rat Liver Tissue Lysate at 50ug
Lane 3: Rat Testis Tissue Lysate at 50ug
Lane 4: HELA Whole Cell Lysate at 40ug
Lane 5: A549 Whole Cell Lysate at 40ug
Lane 6: MCF-7 Whole Cell Lysate at 40ug
Lane 7: NIH3T3 Whole Cell Lysate at 40ug
Predicted bind size: 140KD
Observed bind size: 140KD

ADDITIONAL INFORMATION

Related Product Information for anti-SMC3 antibody	Description: Rabbit IgG polyclonal antibody for Structural maintenance of chromosomes protein 3(SMC3) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Structural maintenance of chromosomes 3, also known as SMC3, is a human gene. 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, known as structural maintenance of chromosomes 3, is a component of the multimeric cohesin complex that holds together sister chromatids during mitosis, enabling proper chromosome segregation. Post-translational modification of the encoded protein by the addition of chondroitin sulfate chains gives rise to the secreted proteoglycan bamacan, an abundant basement membrane protein.
References	1. "Entrez Gene: SMC3 structural maintenance of chromosomes 3". 2. Ghiselli G, Coffee N, Munnery CE, Koratkar R, Siracusa LD (2003). "The cohesin SMC3 is a target the for beta-catenin/TCF4 transactivation pathway".J. Biol. Chem. 278 (22): 20259-67. 3. Patel CA, Ghiselli G (2005). "Hinderin, a five-domains protein including coiled-coil motifs that binds to SMC3". BMC Cell Biol. 6 (1): 3.

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	SMC3
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.