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SMC4 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12658

Specification

SMC4 antibody - middle region - Product Information

Application	**WB**
Primary Accession	Q9NTJ3
Other Accession	NM_001002800, NP_001002800
Reactivity	**Human, Mouse, Rat, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Zebrafish, Pig, Chicken, Horse, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**147kDa KDa**

SMC4 antibody - middle region - Additional Information

Gene ID 10051

Alias Symbol **CAPC, SMC4L1, hCAP-C, CAP-C, SMC-4**

Other Names
Structural maintenance of chromosomes protein 4, SMC protein 4, SMC-4, Chromosome-associated polypeptide C, hCAP-C, XCAP-C homolog, SMC4, CAPC, SMC4L1

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-SMC4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
SMC4 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

SMC4 antibody - middle region - Protein Information

Name SMC4

Synonyms CAPC, SMC4L1

Function
Central component of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases.

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Cellular Location
Nucleus. Cytoplasm. Chromosome. Note=In interphase cells, the majority of the condensin complex is found in the cytoplasm, while a minority of the complex is associated with chromatin. A subpopulation of the complex however remains associated with chromosome foci in interphase cells. During mitosis, most of the condensin complex is associated with the chromatin. At the onset of prophase, the regulatory subunits of the complex are phosphorylated by CDC2, leading to condensin's association with chromosome arms and to chromosome condensation. Dissociation from chromosomes is observed in late telophase

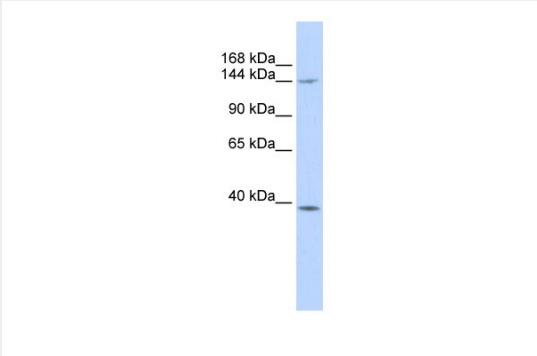
Tissue Location
Widely expressed. Higher expression in testis, colon, thymus.

SMC4 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SMC4 antibody - middle region - Images



WB Suggested Anti-SMC4 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: MCF7 cell lysate
There is BioGPS gene expression data showing that SMC4 is expressed in MCF7

SMC4 antibody - middle region - References

Ham,M.F.,(2007)CancerSci.98(7),1041-1047ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.