# SMC3 Rabbit mAb (AR1755)

## Key Features

| | |
|---|---|
| Host Species: | Rabbit |
| Reactivity: | Human,Mouse,Rat |
| Applications: | WB,IHC,IF,ELISA |
| Isotype: | IgG,Kappa |
| MW: | 142kDa (Calculated)<br>142kDa (Observed) |

## Recommended Dilution Ratios

| | |
|---|---|
| IHC: | 1:200-1000 |
| WB: | 1:2000-10000 |
| IF: | 1:200-1000 |
| ELISA: | 1:5000-20000 |

## Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

## Basic Information

| | |
|---|---|
| Clonality | Monoclonal |

## Immunogen Information

| | |
|---|---|
| Specificity | Endogenous |

## Target Information

| | |
|---|---|
| Gene name | SMC3 BAM BMH CSPG6 SMC3L1 |
| Protein Name | Structural maintenance of chromosomes protein 3 (SMC protein 3) (SMC-3) (Basement membrane-associated chondroitin proteoglycan) (Bamacan) (Chondroitin sulfate proteoglycan 6) (Chromosome-associated polypeptide) (hCAP) |

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 9126 | Q9UQE7 |
| Mouse | | Q9CW03 |
| Rat | | P97690 |

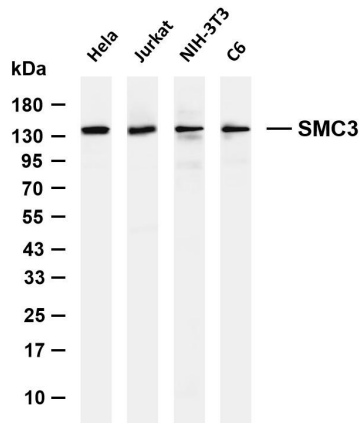
| | |
|---|---|
| Cellular Localization | Nucleus. Chromosome. Chromosome, centromere. Associates with chromatin. Before prophase it is scattered along chromosome |

arms. During prophase, most of cohesion complexes dissociate from chromatin probably because of phosphorylation by PLK, except
at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of the cohesin complex is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation. The phosphorylated form at Ser-1083 is preferentially associated with unsynapsed chromosomal regions (By similarity).

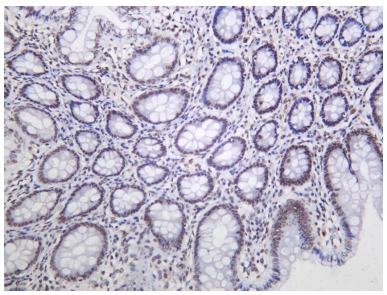
Tissue specificity

B-cell, Epithelium, Eye, Neuron, Umbilical cord blood

## Validation Data




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-SMC3 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.
Lane 1: Hela
Lane 2: Jurkat
Lane 3: NIH-3T3
Lane 4: C6
Predicted band size: 142kDa
Observed band size: 142kDa



Human colon was stained with anti-SMC3 Rabbit antibody.

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