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|  | SMC1 Mouse mAb | E 2 2 2 1 0 2 4 |
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| Swiss-Prot No.: | Q14683 |
| Alternate: | SMC1 |
| Storage/Stability: | Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle. |
| Immunogen: | Purified recombinant fragment of human SMC1 expressed in E. Coli. |
| Purification: | Affinity purified |
| Reactivity: | Human |
| Other Names: | SMC1; SMCB; CDLS2; SB1.8; SMC1L1; DKS423E; KIAA0178; MGC138332; SMC1alpha; DKFZp686L19178; SMC1A |
| Background: | Proper cohesion of sister chromatids is a prerequisite for the correct segregation of chromosomes during cell division. The cohesin multiprotein complex is required for sister chromatid cohesion. This complex is composed partly of two structural maintenance of chromosomes (SMC) proteins, SMC3 and either SMC1L2 or the protein encoded by this gene. Most of the cohesin complexes dissociate from the chromosomes before mitosis, although those complexes at the kinetochore remain. Therefore, the encoded protein is thought to be an important part of functional kinetochores. In addition, this protein interacts with BRCA1 and is phosphorylated by ATM, indicating a potential role for this protein in DNA repair. This gene, which belongs to the SMC gene family, is located in an area of the X-chromosome that escapes X inactivation. |
| Gene ID: | 8243 |
| Cellular localization: | Centromere, Chromosome, Kinetochore, Nucleus |
| Source: | Mouse |
| Antibody type: | Monclonal antibody |
| Isotype: | Mouse IgG1 |
| Molecular Weight: | 143kDa |
| Preservative: | Purified antibody in PBS with 0.05% sodium azide |

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| Recommended Dilutions: | WB: 1/500 – 1/2000; IHC: 1/200 – 1/1000; ICC: 1/200 – 1/1000; FCM: 1/200 – 1/400; Elisa: 1/10000 |
| Clone Number: | 5D5B8 |