

## Anti-FANCM antibody

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| <b>Description</b>      | Unconjugated Rabbit polyclonal to FANCM                                                                                                                    |
| <b>Model</b>            | STJ190816                                                                                                                                                  |
| <b>Host</b>             | Rabbit                                                                                                                                                     |
| <b>Reactivity</b>       | Human                                                                                                                                                      |
| <b>Applications</b>     | ELISA, WB                                                                                                                                                  |
| <b>Gene ID</b>          | <a href="#">57697</a>                                                                                                                                      |
| <b>Gene Symbol</b>      | <a href="#">FANCM</a>                                                                                                                                      |
| <b>Dilution range</b>   | WB 1:500-2000 ELISA 1:5000-20000                                                                                                                           |
| <b>Specificity</b>      | FANCM Polyclonal Antibody detects endogenous levels of protein.                                                                                            |
| <b>Purification</b>     | FANCM antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                    |
| <b>Note</b>             | For Research Use Only (RUO).                                                                                                                               |
| <b>Protein Name</b>     | Fanconi anemia group M protein Protein FACM ATP-dependent RNA helicase FANCM Fanconi anemia-associated polypeptide of 250 kDa FAAP250 Protein Hef ortholog |
| <b>Molecular Weight</b> | 225 kDa                                                                                                                                                    |
| <b>Clonality</b>        | Polyclonal                                                                                                                                                 |
| <b>Conjugation</b>      | Unconjugated                                                                                                                                               |
| <b>Isotype</b>          | IgG                                                                                                                                                        |
| <b>Formulation</b>      | Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.                                                                                        |

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| <b>Concentration</b>                    | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage Instruction</b>              | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Database Links</b>                   | <a href="#">HGNC:23168OMIM:609644</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Alternative Names</b>                | Fanconi anemia group M protein Protein FACM ATP-dependent RNA helicase FANCM Fanconi anemia-associated polypeptide of 250 kDa FAAP250 Protein Hef ortholog                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Function</b>                         | DNA-dependent ATPase component of the Fanconi anemia (FA) core complex . Required for the normal activation of the FA pathway, leading to monoubiquitination of the FANCI-FANCD2 complex in response to DNA damage, cellular resistance to DNA cross-linking drugs, and prevention of chromosomal breakage . In complex with CENPS and CENPX, binds double-stranded DNA (dsDNA), fork-structured DNA (fsDNA) and Holliday junction substrates . Its ATP-dependent DNA branch migration activity can process branched DNA structures such as a movable replication fork. This activity is strongly stimulated in the presence of CENPS and CENPX . In complex with FAAP24, efficiently binds to single-strand DNA (ssDNA), splayed-arm DNA, and 3'-flap substrates . In vitro, on its own, strongly binds ssDNA oligomers and weakly fsDNA, but does not bind to dsDNA . |
| <b>Cellular Localization</b>            | Nucleus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Post-translational Modifications</b> | Phosphorylated; hyperphosphorylated in response to genotoxic stress.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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