

Anti-FANCM antibody



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

Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:23168OMIM:609644
Alternative Names	Fanconi anemia group M protein Protein FACM ATP-dependent RNA helicase FANCM Fanconi anemia-associated polypeptide of 250 kDa FAAP250 Protein Hef ortholog
Function	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 .
Cellular Localization	Nucleus
Post-translational Modifications	Phosphorylated; hyperphosphorylated in response to genotoxic stress.

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