

Rabbit FANCM Polyclonal Antibody | anti-FANCM antibody

FANCM Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327985	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

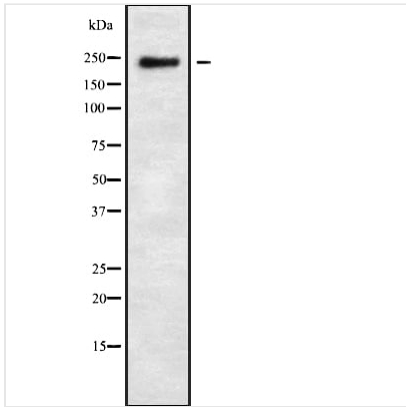
PRODUCT SYNONYMS

FANCM; Polyclonal Antibody; FANCM Antibody; ATP-dependent RNA helicase FANCM; FAAP250; Fanconi anemia group M protein; fanconi anemia-associated polypeptide of 250 kDa; KIAA1596; Protein Hef ortholog; anti-FANCM antibody

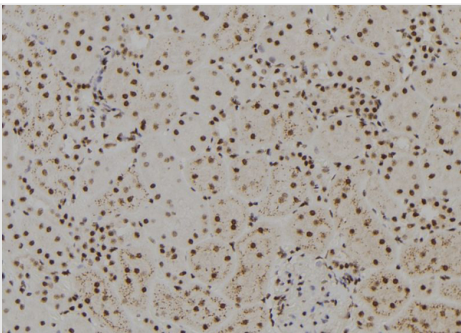
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	FANCM antibody detects endogenous levels of total FANCM
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2022
Applicable Applications for anti-FANCM antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FANCM
Subcellular Location	Nuclear
Predicted Cross Reactivity	Rabbit, Dog
Similarity	Rabbit (82%), Dog (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

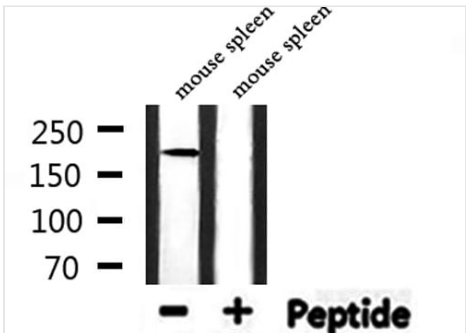
IMAGES



WB (Western Blot)
Western blot analysis FANCM using 293 whole cell lysates



IHC (Immunohistochemistry)
AAA327985 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from mouse spleen, using FANCM Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-FANCM antibody	Function: DNA-dependent ATPase component of the Fanconi anemia (FA) core complex (PubMed:16116422). 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 (PubMed:16116422, PubMed:19423727, PubMed:20347428, PubMed:20347429). In complex with CENPS and CENPX, binds double-stranded DNA (dsDNA), fork-structured DNA (fsDNA) and Holliday junction substrates (PubMed:20347428, PubMed:20347429). 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 (PubMed:20347429). In complex with FAAP24, efficiently binds to single-strand DNA (ssDNA), splayed-arm DNA, and 3'-flap substrates (PubMed:17289582). In vitro, on its own, strongly binds ssDNA oligomers and weakly fsDNA, but does not bind to dsDNA (PubMed:16116434). Subunit Structure: Component of the Fanconi anemia (FA) core complex, which consists of CENPS, CENPX, FANCA, FANCB, FANCC, FANCE, FANCF, FANCG, FANCL, FANCM, FAAP24 and FAAP100 (PubMed:16116422, PubMed:16116434, PubMed:17289582). The FA core complex associates with Bloom syndrome (BLM) complex, which consists of at least BLM, DNA topoisomerase 3-alpha/TOP3A, RMI1/BLAP75, RPA1/RPA70 and RPA2/RPA32. This supercomplex between FA and BLM complexes has been called BRAFT (PubMed:20347428). Forms a discrete complex with CENPS and CENPX, called FANCM-MHF; this interaction stimulates DNA binding and replication fork remodeling by FANCM and stabilizes the binding partners (PubMed:20347428, PubMed:20347429). Forms a heterodimer with FAAP24; this interaction increases FANCM single-stranded DNA-binding activity (PubMed:17289582, PubMed:20347428). Post-translational Modifications: Phosphorylated; hyperphosphorylated in response to genotoxic stress. Similarity: Belongs to the DEAD box helicase family. DEAH subfamily. FANCM sub-subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	815890934
NCBI GeneID	57697

NCBI Accession #	NP_001295062.1
NCBI GenBank Nucleotide #	NM_001308133.1
UniProt Accession #	Q8IYD8 ; Q3YFH9 ; Q8N9X6 ; Q9HCH6 ; B2RTQ9
Molecular Weight	Observed: 232 kDa Predicted: 233 kDa
NCBI Official Full Name	Fanconi anemia group M protein isoform 2
NCBI Official Synonym Full Names	FA complementation group M
NCBI Official Symbol	FANCM
NCBI Official Synonym Symbols	POF15; SPGF28; FAAP250; KIAA1596
NCBI Protein Information	Fanconi anemia group M protein
UniProt Protein Name	Fanconi anemia group M protein
UniProt Gene Name	FANCM
UniProt Synonym Gene Names	KIAA1596; Protein FACM; FAAP250

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fancm-antibody-immunohistochemistry-western-blot-elisa/327985>