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FANCM Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3187a

Specification

FANCM Antibody (internal region) - Product Information

Application	**E**
Primary Accession	Q8IYD8
Other Accession	NP_065988.1, 57697
Predicted	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**232191**

FANCM Antibody (internal region) - Additional Information

Gene ID 57697

Other Names
Fanconi anemia group M protein, Protein FACM, 3.6.4.13, ATP-dependent RNA helicase FANCM, Fanconi anemia-associated polypeptide of 250 kDa, FAAP250, Protein Hef ortholog, FANCM, KIAA1596

Dilution
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FANCM Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

FANCM Antibody (internal region) - Protein Information

Name FANCM

Synonyms KIAA1596

Function
DNA-dependent ATPase component of the Fanconi anemia (FA) core complex (PubMed:<a

href="http://www.uniprot.org/citations/16116422" target="_blank">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, PubMed:29231814). 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).

Cellular Location
Nucleus

Tissue Location
Expressed in germ cells of fetal and adult ovaries. In fetal ovaries, it is present in oogonia but expression is stronger in pachytene stage oocytes. Expressed in oocytes arrested at the diplotene stage of prophase I during the last trimester of pregnancy and in adults (PubMed:29231814). Expressed in the testis (PubMed:30075111).

FANCM Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FANCM Antibody (internal region) - Images

FANCM Antibody (internal region) - References

The Fanconi anemia family of genes and its correlation with breast cancer susceptibility and breast cancer features. Barroso E, Pita G, Arias JI, Menendez P, Zamora P, Blanco M, Benitez J, Ribas G, Breast cancer research and treatment 2009 Dec 118 (3): 655-60. PMID: 19536649