Product Datasheet

FANCM Antibody (CV5.1) - BSA Free
NBP2-50418

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Reviews: 1 Publications: 6

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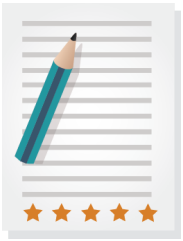
Updated 10/23/2024 v.20.1



NBP2-50418

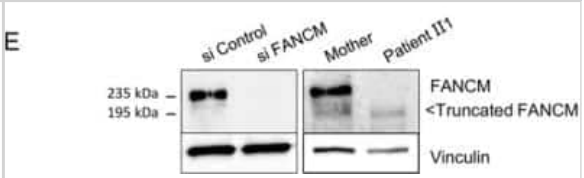
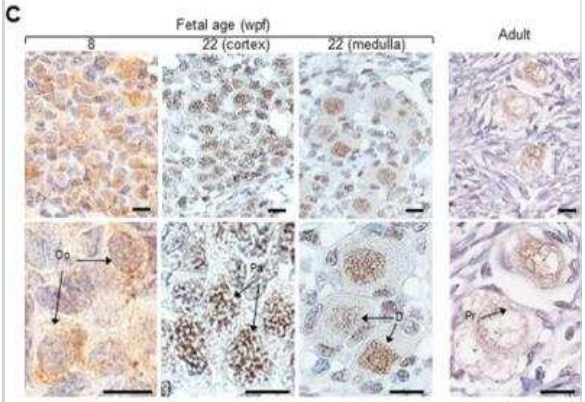
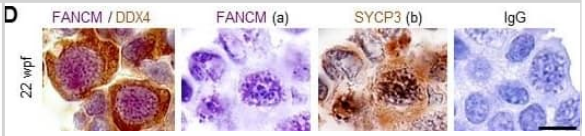
FANCM Antibody (CV5.1) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CV5.1
Preservative	0.02% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	57697
Gene Symbol	FANCM
Species	Human
Immunogen	His-tagged denatured FANCM (aa 1507-1679) made in E.coli

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 2 - 4 ug/ml lysate, Immunohistochemistry-Paraffin, Knockdown Validated
Application Notes	Positive control(s): 293 cell extract. Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 29231814).

Images

Knockdown Validated: FANCM Antibody (CV5.1) [NBP2-50418] - Western blots of FANCM in the POI family. HEK293 cell transfected with a FANCM-specific siRNA were used to validate the specificity of the anti-FANCM antibody. To transiently deplete FANCM, HEK293 cells were transfected with 20 nmol/L of small interfering RNA (siRNA) targeting FANCM, 5'-GGC-UAC-GUC-CAG-GAG-CGC-3' with the CaCL2 method. Panel present the result of a representative experiment on at least three independent analysis. Image collected and cropped by CiteAb from the following publication (https://elifesciences.org/articles/30490) licensed under a CC-BY license.	
Immunohistochemistry: FANCM Antibody (CV5.1) [NBP2-50418] - Immunohistochemistry of FANCM in human fetal and adult ovaries. Fetal ovaries at 8 and 22 wpf and adult ovaries were studied. FANCM positive cells appear in yellow/brown color (monoclonal FANCM CV5.1 antibody, Novus Biologicals, Abingdon, UK). Ovarian sections were counterstained with hematoxylin (blue staining). Oo, oogonia; Pa, oocyte at the pachytene stage of meiosis I, D, oocyte at the diplotene stage of meiosis I; Pr, oocyte in primordial follicle. Image collected and cropped by CiteAb from the following publication (https://elifesciences.org/articles/30490) licensed under a CC-BY license.	
FANCM expression in human fetal ovaries.(A) Relative FANCM mRNA abundance was measured by RT-qPCR in human fetal ovaries from 5 to 32 weeks post-fertilization (wpf). (B) Germ cells (D2-40+) & somatic cells (D2-40-) were sorted from three ovaries ranging from 8 to 12 wpf & FANCM expression was measured. ACTB was used to normalize FANCM expression in all samples. Dots represent different ovaries & the mean is indicated by the line. (C) Immunohistochemistry of FANCM in human fetal & adult ovaries. Fetal ovaries at 8 & 22 wpf & adult ovaries were studied. FANCM positive cells appear in yellow/brown color (monoclonal FANCM CV5.1 antibody, Novus Biologicals, Abingdon, UK). Ovarian sections were counterstained with hematoxylin (blue staining). Oo, oogonia; Pa, oocyte at the pachytene stage of meiosis I, D, oocyte at the diplotene stage of meiosis I; Pr, oocyte in primordial follicle. (D) Co-staining in 22 wpf ovaries, for FANCM (purple) & DDX4 (brown) confirmed the germ cell identity of FANCM-positive cells (left). Successive staining for FANCM & SYCP3 in the same section (panels a & b). Negative control performed with non-immune mouse IgG (right). Scale bar: 10 µm. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/29231814), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Dzaparidze G, Kazachonok D, Gvozdkov A et al. Diagnostic significance of stromal changes in biopsies of prostate adenocarcinoma Pathology, research and practice 2021-04-08 [PMID: 33857855]

Lu R, O'Rourke J, Sobinoff A et al. The FANCM-BLM-TOP3A-RMI complex suppresses alternative lengthening of telomeres (ALT) Nat Commun 2019-05-28 [PMID: 31138797] (WB, WB, Human)

Brannvoll A, Xue X, Kwon Y et al. The ZGRF1 Helicase Promotes Recombinational Repair of Replication-Blocking DNA Damage in Human Cells Cell Rep 2020-07-07 [PMID: 32640219] (WB, Human)

Dzaparidze G, Anion E, Laan M, Minajeva A The decline of FANCM immunohistochemical expression in prostate cancer stroma correlates with the grade group Pathol. Int. 2020-05-28 [PMID: 32462745] (IHC-P, Human)

Kasak L, Punab M, Nagirnaja L et al. Bi-allelic Recessive Loss-of-Function Variants in FANCM Cause Non-obstructive Azoospermia Am. J. Hum. Genet. 2018-08-02 [PMID: 30075111] (IHC-P, Human)

Fouquet B, Pawlikowska P, Caburet S et al. A homozygous FANCM mutation underlies a familial case of non-syndromic primary ovarian insufficiency. Elife 2017-12-12 [PMID: 29231814] (IHC-P, Human)

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Products Related to NBP2-50418

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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-55444PEP	FANCM Recombinant Protein Antigen

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