

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.

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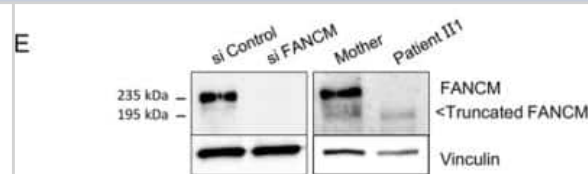
NBP2-50418

FANCM Antibody (CV5.1) - BSA Free

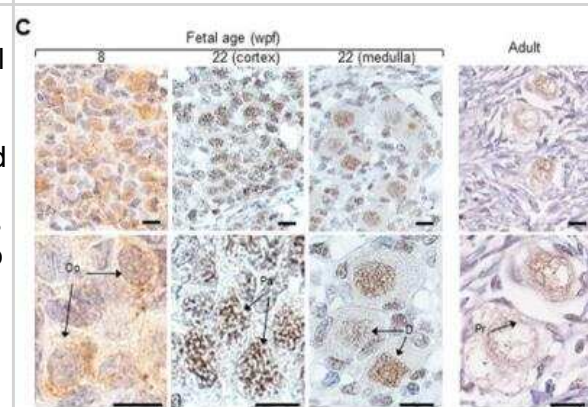
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CV5.1
Preservative	0.02% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse FANCM Antibody (CV5.1) - BSA Free (NBP2-50418) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-FANCM Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, 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

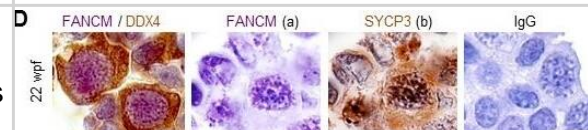
Western Blot: FANCM Antibody (CV5.1) [NBP2-50418] - Western blots of FANCM in the POI family. HEK293 cells transfected with a FANCM-specific siRNA were used to validate the specificity of the anti-FANCM antibody. To transiently deplete FANCM, HEK293 cells were transfected with 20 nmol/L of small interfering 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 μ m. 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

Lee J, Sohn E, Lee J et al. Distinct mechanisms underlying extrachromosomal telomere DNA generation in ALT cancers *Nucleic acids research* 2025-08-28 [PMID: 40795958]

Lu R, Nelson CB, Rogers S et Al. Distinct modes of telomere synthesis and extension contribute to Alternative Lengthening of Telomeres *iScience* 2023-12-11 [PMID: 38213617]

Feng S, Liu K, Shang J et Al. Profound synthetic lethality between SMARCAL1 and FANCM *Mol Cell* 2024-11-01 [PMID: 39510066]

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

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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