

Product Datasheet

BRIP1/FANCI Antibody - BSA Free NBP1-31883

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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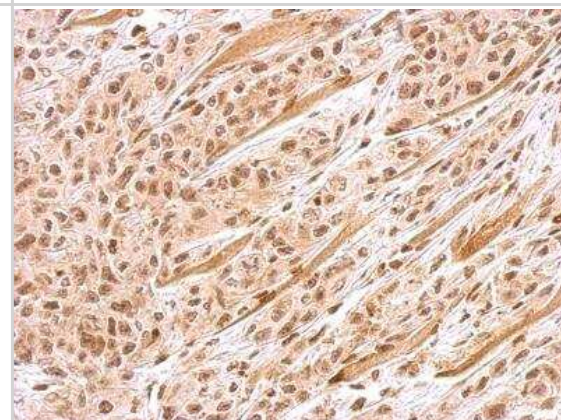
NBP1-31883**BRIP1/FANCIJ Antibody - BSA Free**

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	141 kDa
Product Description	
Description	Novus Biologicals Rabbit BRIP1/FANCIJ Antibody - BSA Free (NBP1-31883) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-BRIP1/FANCIJ Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	83990
Gene Symbol	BRIP1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 26490168).
Immunogen	Recombinant protein encompassing a sequence within the N-terminus region of human BRIP1/FANCIJ. The exact sequence is proprietary.
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Proximity Ligation Assay
Recommended Dilutions	Western Blot 1:500-1:3000, Simple Western, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Proximity Ligation Assay Reported in scientific literature (PMID:33445471)
Application Notes	See Simple Western Antibody Database for Simple Western validation: separated by Size

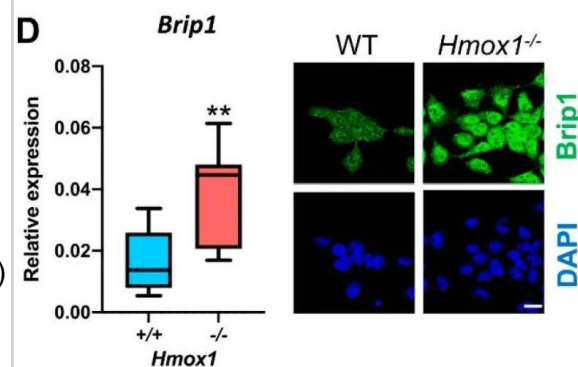
Images

Western Blot: BRIP1/FANCJ Antibody [NBP1-31883] - Whole cell extract (30 ug) was separated by 5% SDS-PAGE, and the membrane was blotted with FANCJ antibody [N1N2], N-term diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.

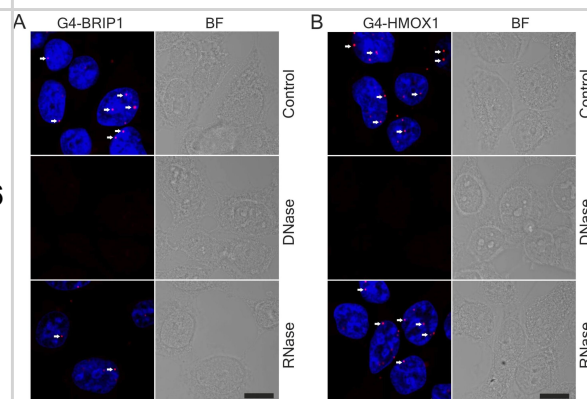
Immunohistochemistry-Paraffin: BRIP1/FANCJ Antibody [NBP1-31883] - SAS xenograft. FANCJ antibody [N1N2], N-term dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



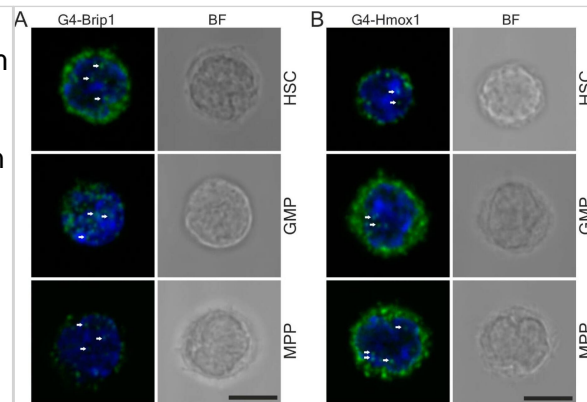
Immunocytochemistry/Immunofluorescence: BRIP1/FANCJ Antibody [NBP1-31883] - Expression of BRIP1/FANCJ at the mRNA (graphs) and protein (photos) levels in iPSCs. Gene expression was assessed with RNA-seq in FACS-sorted bone marrow HSCs or with real-time RT-PCR in cultured iPSCs. The box-and-whiskers graphs show the median, 25th and 75th percentile (box) minimum, and maximum values (whiskers) of the FPKM (fragments per kilobase million) or relative expression in comparison to house-keeping genes (geometric mean for HPRT, B2M, and beta-actin), $n = 4$, * $p < 0.05$, ** $p < 0.01$, Mann-Whitney test (HSCs) or Wilcoxon test (iPSCs). Nuclei are labeled with DAPI. Scale bars: 20 um. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/33445471/](https://pubmed.ncbi.nlm.nih.gov/33445471/)) licensed under a CC-BY license.



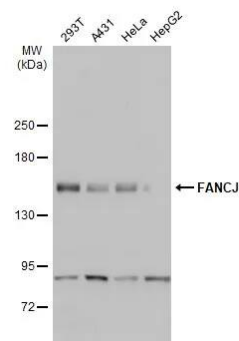
Immunocytochemistry/ Immunofluorescence: BRIP1/FANCJ Antibody [NBP1-31883] - In situ proximity ligation assay (PLA) in HEK293T cells. (A) G4-BRIP1 & (B) G4-HMOX1 interactions (red dots) were visualized in the control group & after DNase or RNase digestion. Most of the G4 interactions were localized in the nucleus (arrows), but some were also present in the cytoplasm. Cells that were fixed in methanol & mouse 1H6 antibodies were used. Nuclei were counterstained with DAPI (blue), where the transmission bright-field images (BF) show the cell morphologies. Scale bar: 10 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33445471/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: BRIP1/FANCJ Antibody [NBP1-31883] - Detection of the PLA signal in sorted hematopoietic stem cells. (A) G4-Brip1 & (B) G4-Hmox1 interactions (green dots) were visualized in HSCs & GMP & MPP cells. G4 interactions were visible in the nucleus (arrows) & in the cytoplasm. Nuclei were counterstained with DAPI (blue), where the transmission bright-field images (BF) show the cell morphologies. Cells were fixed in PFA & goat 1H6 antibodies were used. Scale bars: 5 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33445471>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: BRIP1/FANCJ Antibody [NBP1-31883] - Various whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with BRIP1/FANCJ antibody [N1N2], N-term (NBP1-31883) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

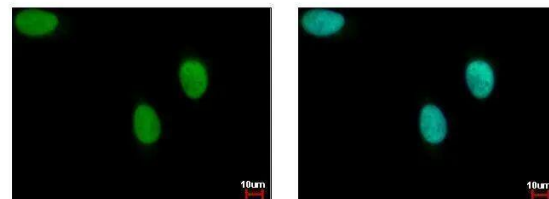


BRIP1/FANCJ antibody [N1N2], N-term detects BRIP1 protein at cytoplasm by immunofluorescent analysis.

Sample: 293T cells were fixed in 2% paraformaldehyde/culture medium at 37C for 30 min.

Green: BRIP1 protein stained by BRIP1/FANCJ antibody [N1N2], N-term (NBP1-31883) diluted at 1:500.

Blue: Hoechst 33343 staining.



Publications

M Kusi, M Zand, LL Lin, M Chen, A Lopez, CL Lin, CM Wang, ND Lucio, NB Kirma, J Ruan, TH Huang, K Mitsuya 2-Hydroxyglutarate destabilizes chromatin regulatory landscape and lineage fidelity to promote cellular heterogeneity Cell Reports, 2022-01-11;38(2):110220. 2022-01-11 [PMID: 35021081] (Western Blot, Mouse)

Boavida A, Napolitano LM, Santos D et Al. FANCD1 DNA helicase is recruited to the replisome by AND-1 to ensure genome stability EMBO Rep 2024-01-02 [PMID: 38177925]

Tom Egger, Laura Morano, Marie-Pierre Blanchard, Jihane Basbous, Angelos Constantinou Spatial organization and functions of Chk1 activation by TopBP1 biomolecular condensates. Cell reports 2024-04-04 [PMID: 38578830]

Esin Isik, Kaustubh Shukla, Michaela Pospisilova, Christiane König, Martin Andrs, Satyajeet Rao, Vinicio Rosano, Jana Dobrovolna, Lumir Krejci, Pavel Janscak MutS β -MutL β -FANCD1 axis mediates the restart of DNA replication after fork stalling at cotranscriptional G4/R-loops. Science advances 2024-02-14 [PMID: 38324687]

Yaneva D, Sparks JL, Donsbach M et al. The FANCD1 helicase unfolds DNA-protein crosslinks to promote their repair Molecular cell 2023-01-05 [PMID: 36608669] (WB, Human)

Summers PA, Lewis B, Gonzalez-Garcia J, Lim AHM Visualising G-quadruplex DNA dynamics in live cells by fluorescence lifetime imaging microscopy Nat Commun 2021-01-09 [PMID: 33420085]

Krzepkowski W, Chudy P, Sokołowski G, et al. Proximity Ligation Assay Detection of Protein-DNA Interactions-Is There a Link between Heme Oxygenase-1 and G-quadruplexes? Antioxidants (Basel, Switzerland) 2021-01-12 [PMID: 33445471] (PLA, Mouse)

Kim D, Liu Y, Oberly S et al. ATR-mediated proteome remodeling is a major determinant of homologous recombination capacity in cancer cells. Nucleic Acids Res. 2018-07-12 [PMID: 30010936] (WB, Human)

Sun X, Brieno-Enriquez MA, Cornelius A et al. FancD1 (Brip1) loss-of-function allele results in spermatogonial cell depletion during embryogenesis and altered processing of crossover sites during meiotic prophase I in mice. Chromosoma. 2015-10-21 [PMID: 26490168] (WB, Mouse)





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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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