

Product Datasheet

FANCD2 Antibody (FI-17) - BSA Free NB100-316

Unit Size: 0.1 ml

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

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NB100-316

FANCD2 Antibody (FI-17) - BSA Free

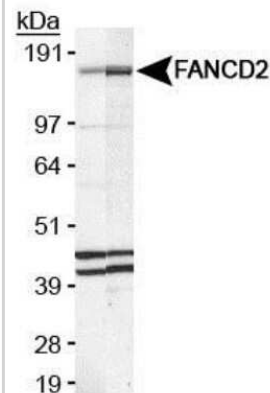
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	FI-17
Preservative	0.1% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	164.1 kDa
Product Description	
Description	Novus Biologicals Mouse FANCD2 Antibody (FI-17) - BSA Free (NB100-316) is a monoclonal antibody validated for use in WB, ICC/IF, Simple Western, IP and ChIP. Anti-FANCD2 Antibody: Cited in 14 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2177
Gene Symbol	FANCD2
Species	Human, Hamster (Negative), Mouse (Negative)
Immunogen	This FANCD2 Antibody (FI-17) was developed against human FANCD2 fusion protein [Swiss-Prot: Q9BXW9]
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:1000 - 1:2000, Simple Western 1:50, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP) 1:10-1:500
Application Notes	In Western blot, this antibody recognizes a band at ~155 and ~162 kDa (post-translationally modified form). The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 150 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

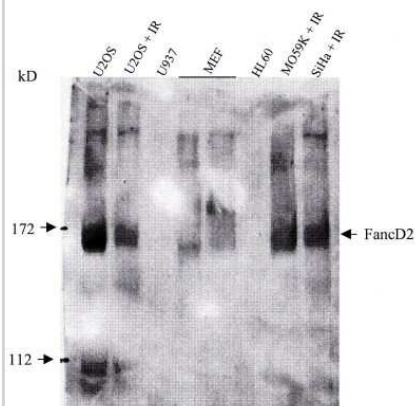
Simple Western: FANCD2 Antibody (FI-17) [NB100-316] - Image shows a specific band for FANCD2 in 1 mg/mL of HeLa cell lysate using FANCD2 Antibody (FI-17). This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Western Blot: FANCD2 Antibody (FI-17) [NB100-316] - MCF7 cell line (lane 1, molecular weight: 164.1 KDa) and HeLa whole cell extract (lane 2) using FANCD2 Antibody (FI-17).



Western Blot: FANCD2 Antibody (FI-17) [NB100-316] - Expression of FANCD2 (Molecular weight: 164.1 KDa) in different cell lines. Proliferating cells were treated with 10-Gy IR. 50 ug protein was loaded each lane. FANCD2 Antibody (FI-17) at 1:1000.



Publications

Wells JP Proliferating cell nuclear antigen ubiquitination as a central regulator of transcriptional stress Thesis 2023-01-01

Pena-Gomez MJ, Moreno-Gordillo P, Narmonté M et al. FANCD2 maintains replication fork stability during misincorporation of the DNA demethylation products 5-hydroxymethyl-2'-deoxycytidine and 5-hydroxymethyl-2'-deoxyuridine Cell death & disease 2022-05-27 [PMID: 35624090] (ICC/IF)

Henrikson K TRANSCRIPTIONAL REGULATION OF SOX5 AND WWOX BY FANCD2 Thesis 2021-01-01 (WB)

Sato K, Brandsma I, van Rossum-Fikkert SE et al. HSF2BP negatively regulates homologous recombination in DNA interstrand crosslink repair Nucleic Acids Res. 2020-01-21 [PMID: 31960047] (WB, Human, Mouse)

Sabatella M, Pines A, Slyskova J et al. ERCC1-XPF targeting to psoralen-DNA crosslinks depends on XPA and FANCD2 Cell. Mol. Life Sci. 2019-08-07 [PMID: 31392348] (WB, Human)

Slyskova J, Sabatella M, Ribeiro-Silva C et al. Base and nucleotide excision repair facilitate resolution of platinum drugs-induced transcription blockage Nucleic Acids Res. 2018-08-22 [PMID: 30137419] (ICC/IF, Human)

Nalepa G, Enzor R, Sun Z et al. Fanconi anemia signaling network regulates the spindle assembly checkpoint. J Clin Invest. 2013-09-03 [PMID: 23934222] (WB, Human)

Kusayanagi T, Tsukuda S, Shimura S et al. The antitumor agent doxorubicin binds to Fanconi anemia group F protein Bioorg Med Chem 2012-09-16 [PMID: 23026082] (WB, Human)

Park S, Beck B, Saadatzadeh M et al. Fanconi anemia D2 protein is an apoptotic target mediated by caspases J Cell Biochem 2011-09-01 [PMID: 21520247] (WB, Human)

Bhagwat N, Olsen AL, Wang AT et al. XPF-ERCC1 participates in the Fanconi anemia pathway of crosslink repair. Mol Cell Biol :MCB.00086-00009. 2009-01-01 [PMID: 19805513]

Chu PC, Wang TY, Lu YT et al. Involvement of p29 in DNA damage responses and Fanconi anemia pathway. Carcinogenesis 2009-10-01 [PMID: 19748926]

Willers H, Taghian AG, Luo C-M et al. Utility of DNA Repair Protein Foci for the Detection of Putative BRCA1 Pathway Defects in Breast Cancer Biopsies. Mol Cancer Res;7(8):1304-1309. 2009-01-01 [PMID: 19671671]

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Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB100-316

NB800-PC1	HeLa Whole Cell Lysate
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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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