

Product Datasheet

RFC1 Antibody - BSA Free NBP2-54960

Unit Size: 100 ul

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

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Publications: 2

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Updated 9/9/2025 v.20.1

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NBP2-54960

RFC1 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

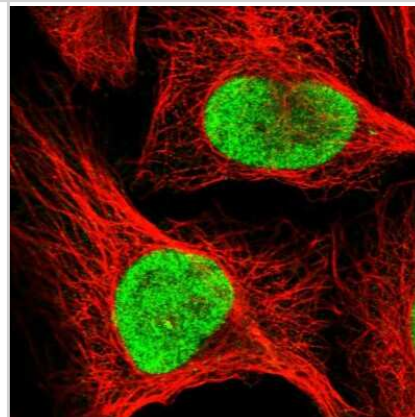
Product Description	
Description	Novus Biologicals Rabbit RFC1 Antibody - BSA Free (NBP2-54960) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-RFC1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5981
Gene Symbol	RFC1
Species	Human
Reactivity Notes	Mouse 81%, Rat 81%
Immunogen	This antibody was developed against a recombinant protein corresponding to the following amino acid sequence: QDVVALMDTYYYLMKEDFENIMEISSWGGKPSFSLDPKVKA AFTRAYNKEAH LTPYSLQAIKASRHSTSPSLDSEYNEELNEDDSQSDEKDQDAI

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

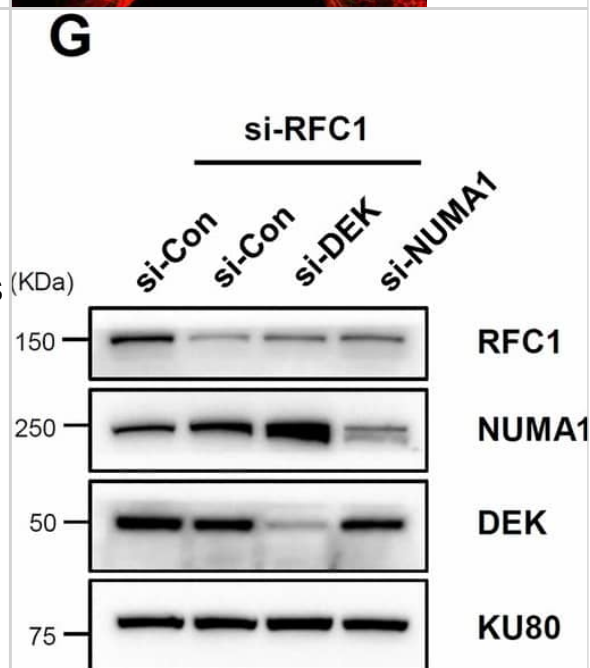


Images

Immunocytochemistry/Immunofluorescence: RFC1 Antibody [NBP2-54960] - Staining of human cell line U-2 OS shows localization to nucleoplasm. Antibody staining is shown in green.



DEK- or NUMA1-depleted cells showed abnormal PCNA accumulation. A–C U2OS cells were transfected with DEK or NUMA1 siRNAs. 48 h after transfection, cells were irradiated through a 5 μm micropore filter with 100 J/m² of UV-C, fixed at the indicated time points, and immunostained for PCNA and CPD. A Representative images of PCNA co-localization with CPDs. Scale bar, 20 μm. B Quantification of PCNA co-localization with CPDs (%). Each colored asterisk represents the statistical analysis in comparison to si-Con. Quantification of PCNA signal intensity at CPD foci. A.U., arbitrary unit. B, C S phase cells with S phase-specific PCNA foci staining pattern were excluded from the analysis. Error bars represent SEM (n = 3). D–G U2OS cells were transfected with siRNAs as indicated. 48 h after transfection, cells were irradiated through a 5 μm micropore filter with 100 J/m² of UV-C and subjected to immunostaining D–F or lysed for Western blot G. D Representative images. Scale bar, 20 μm. E, F Quantification of PCNA signal intensity at CPD foci (A. U.). S phase cells with S phase-specific PCNA foci staining pattern were excluded from the analysis. Images from the 30 min E and 4 h F time points were analyzed using the same parameters, and the graphs are shown separately for each time point. Error bars represent SEM (n = 3). Statistical analysis: one-way ANOVA B, C, E, F, ***P < 0.005, **P < 0.01, *P < 0.05, and ns not significant. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41420-025-02823-z>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kim, S;Kim, Y;Kim, Y;Yoon, S;Lee, KY;Lee, Y;Kang, S;Myung, K;Oh, CK; PCNA Ser46-Leu47 residues are crucial in preserving genomic integrity PloS one 2023-05-19 [PMID: 37205694] (Western Blot, Block/Neutralize)

Park SH, Kim SJ, Myung K, Lee KY Characterization of subcellular localization of eukaryotic clamp loader/unloader and its regulatory mechanism Scientific reports 2021-11-08 [PMID: 34751190]



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Products Related to NBP2-54960

NBP2-54960PEP	RFC1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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