abcam

Product datasheet

Anti-RFC1 antibody - C-terminal ab229229

3 Images

Overview

Product name	Anti-RFC1 antibody - C-terminal
Description	Rabbit polyclonal to RFC1 - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment within Human RFC1 (C terminal). The exact sequence is proprietary. Database link: **P35251**
Positive control	WB: HEK-293T, A431, HeLa and HepG2 whole cell lysates. IP: HeLa whole cell extract. ICC/IF: HeLa cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab229229 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 128 kDa.
IP		1/100 - 1/500.
ICC/IF		1/100 - 1/1000.

Target

Function The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins PCNA and activator 1. This subunit binds to the primer-template junction. Binds the PO-B transcription element as well as other GA rich DNA sequences. Could play a role in DNA transcription regulation as well as DNA replication and/or repair. Can bind single- or double-stranded DNA.
Interacts with C-terminus of PCNA. 5' phosphate residue is required for binding of the N-terminal DNA-binding domain to duplex DNA, suggesting a role in recognition of non-primer template DNA structures during replication and/or repair.

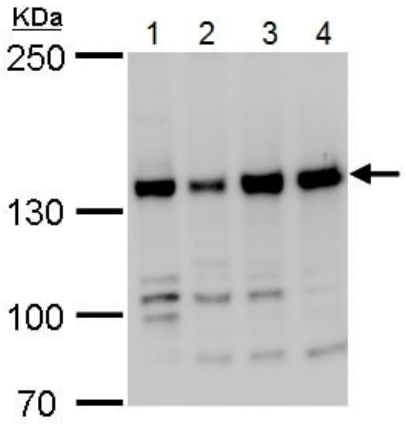
Tissue specificity Wide tissue distribution. Undetectable in placental tissue.

Sequence similarities Belongs to the activator 1 large subunit family.
Contains 1 BRCT domain.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Nucleus.

Images



Western blot - Anti-RFC1 antibody - C-terminal (ab229229)

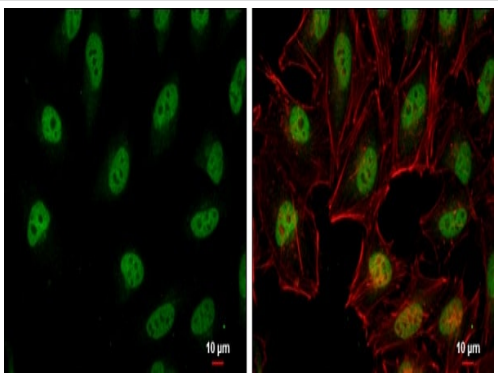
All lanes : Anti-RFC1 antibody - C-terminal (ab229229) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell lysate
Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 128 kDa

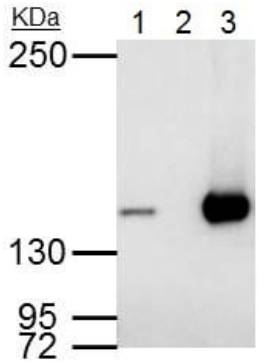
5% SDS-PAGE gel.



Immunocytochemistry/ Immunofluorescence - Anti-RFC1 antibody - C-terminal (ab229229)

4% paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for RFC1 (green) using ab229229 at 1/1000 dilution in ICC/IF.

Nuclear counterstain: Hoechst 33342 (blue). Phalloidin, a cytoskeleton marker, was labeled at 1/200 dilution (red).



Immunoprecipitation - Anti-RFC1 antibody - C-terminal (ab229229)

RFC1 was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract with 4 µg of ab229229. Western blot was performed from the immunoprecipitate using ab229229 at 1/1000 dilution. Anti-Rabbit IgG was used as a secondary reagent.

Lane 1: HeLa whole cell extract 35 µg.
Lane 2: 4 µg preimmune Rabbit IgG instead of ab229229 in HeLa whole cell extract.
Lane 3: ab229229 IP in HeLa whole cell extract.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors