abcam

Product datasheet

Anti-FANCC antibody ab5065

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Overview

Product name	Anti-FANCC antibody
Description	Rabbit polyclonal to FANCC
Host species	Rabbit
Specificity	Detects a band at 60kDa in Hela cell lysate corresponding to FANCC.
Tested applications	**Suitable for:** ICC/IF, WB
Species reactivity	**Reacts with:** Human **Does not react with:** Mouse
Immunogen	Synthetic peptide: CLINKEPQNSGSKLNS , corresponding to amino acids 96 - 112 of Human FANCC. Run BLAST with Run BLAST with
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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.878% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab5065 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
ICC/IF		Use a concentration of 5 µg/ml.
WB	★★★★☆ **(6)**	1/500 - 1/2000. Detects a band of approximately 60 kDa (predicted molecular weight: 63 kDa).

Target

Function DNA repair protein that may operate in a postreplication repair or a cell cycle checkpoint function. May be implicated in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability. Upon IFNG induction, may facilitate STAT1 activation by recruiting STAT1 to IFNGR1.

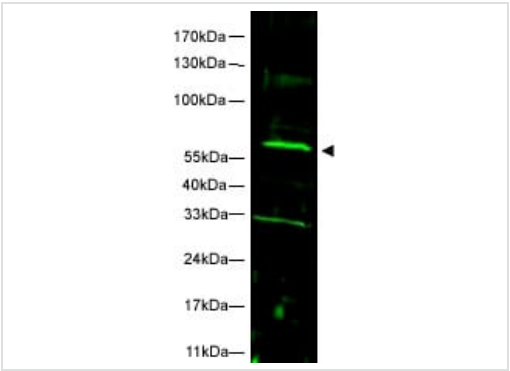
Tissue specificity Ubiquitous.

Involvement in disease Defects in FANCC are the cause of Fanconi anemia complementation group C (FANCC) [MIM:227645]. A disorder affecting all bone marrow elements and resulting in anemia, leukopenia and thrombopenia. It is associated with cardiac, renal and limb malformations, dermal pigmentary changes, and a predisposition to the development of malignancies. At the cellular level it is associated with hypersensitivity to DNA-damaging agents, chromosomal instability (increased chromosome breakage) and defective DNA repair.

Developmental stage Expression increases during S phase, is maximal at the G2/M transition, and declines during M phase (at protein level).

Cellular localization Nucleus. Cytoplasm. The major form is nuclear. The minor form is cytoplasmic.

Images



Western blot - Anti-FANCC antibody (ab5065)

Anti-FANCC antibody (ab5065) at 1/1500 dilution + HeLa whole cell lysate at 35 µg

Secondary

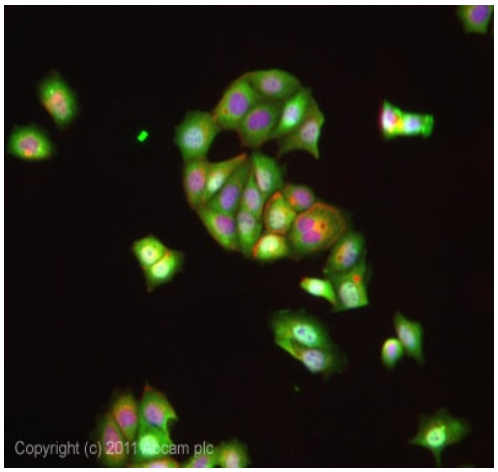
IRDye 800 conjugated Goat anti-Rabbit IgG [H&L] at 1/10000 dilution

Predicted band size: 63 kDa

Observed band size: 60 kDa

Additional bands at: 33 kDa. We are unsure as to the identity of these extra bands.

Primary antibody incubated with PBS supplemented with 1% normal goat serum and 0.1% milk.



Immunocytochemistry/ Immunofluorescence - Anti-FANCC antibody (ab5065)

ICC/IF image of ab5065 stained MCF7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab5065, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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