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FANCC Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9522b

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	Q00597
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24076
Calculated MW	63429
Antigen Region	527-555

Additional Information

Gene ID	2176
Other Names	Fanconi anemia group C protein, Protein FACC, FANCC, FAC, FACC
Target/Specificity	This FANCC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 527-555 amino acids from the C-terminal region of human FANCC.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FANCC Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FANCC
Synonyms	FAC, FACC
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.

Cellular Location Nucleus. Cytoplasm. Note=The major form is nuclear. The minor form is cytoplasmic

Tissue Location Ubiquitous.

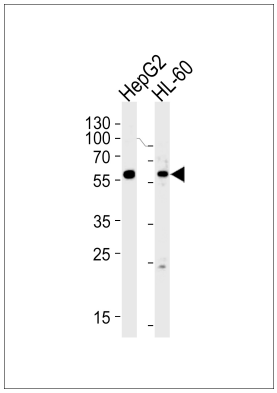
Background

The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCJ (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). The previously defined group FANCH is the same as FANCA. Fanconi anemia is a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. The members of the Fanconi anemia complementation group do not share sequence similarity; they are related by their assembly into a common nuclear protein complex. This protein is for complementation group C.

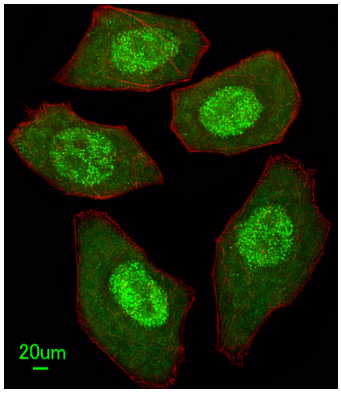
References

Barroso, E., et al. Breast Cancer Res. Treat. 118(3):655-660(2009)
McWilliams, R.R., et al. Cancer Epidemiol. Biomarkers Prev. 18(9):2549-2552(2009)
Michiels, S., et al. Carcinogenesis 30(5):763-768(2009)
Palmieri, R.T., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3567-3572(2008)
Sinha, S., et al. Mol. Cancer 7, 84 (2008) :

Images

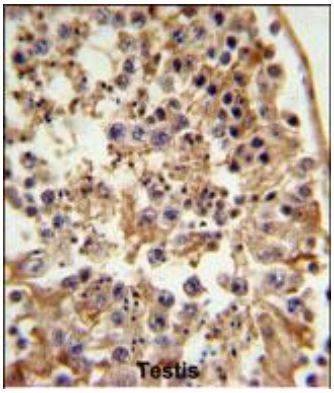


Western blot analysis of lysates from HepG2,HL-60 cell line (from left to right),using FANCC Antibody (C-term)(Cat. #AP9522b).AP9522b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.

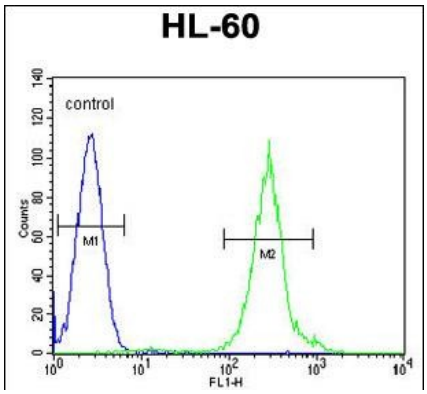


Immunofluorescent analysis of U251 cells, using FANCC Antibody (C-term) (Cat. #AP9522b). AP9522b was diluted at 1:25 dilution. Alexa Fluor 488-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).

FANCC Antibody (C-term)(Cat. #AP9522b) IHC analysis in formalin fixed and paraffin embedded testis tissue



followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FANCC Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



FANCC Antibody (C-term) (Cat. #AP9522b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.