

**Datasheet for 600-401-672****FANCC Antibody****Overview**

<b>Description:</b>	Anti-Human FANCC (RABBIT) Antibody - 600-401-672
<b>Item No.:</b>	600-401-672
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, WB
<b>Reactivity:</b>	Human
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	FANCC (also called Protein FACC or Fanconi Anemia Group C protein) is involved in DNA repair, perhaps specifically with post-replication repair or a cell cycle checkpoint function. FANCC may also be implicated in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability. FANCC belongs to the multi-subunit Fanconi Anemia (FA) complex composed of FANCA, FANCB, FANCC, FANCE, FANCF, FANCG, FANCL/PHF9 and FANCM. FANCC is mainly found within the nucleus although some protein is localized in the cytoplasm. This protein is ubiquitously expressed. Defects in FANCC are a cause of Fanconi anemia (FA). FA is a genetically heterogeneous, autosomal 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 gene encodes the protein for complementation group C.
<b>Synonyms:</b>	rabbit anti-FANCC antibody, FANCC-C, FANCC, FACC antibody, Fanconi anemia group C protein, Fanconi anemia complementation group C antibody
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	FANCC
<b>Reactivity:</b>	Human

<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 80-115 of Human FANCC.
<b>Purity/Specificity:</b>	This affinity-purified antibody is directed against human FANCC protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with FANCC protein from human and chimpanzee based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q00597</a></li><li>• <a href="#">NCBI - 56118236</a></li><li>• <a href="#">GeneID - 2176</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, WB
<b>Application Note:</b>	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 63 kDa in size corresponding to FANCC by western blotting in the appropriate human tissue.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:20,000 - 1:80,000
<b>WB:</b>	1:1,000 - 1:3,000

## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1.45 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

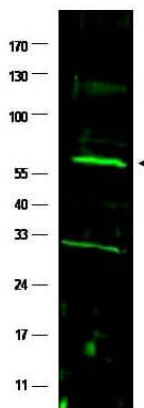
## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
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**Storage Condition:** Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### Western Blot

Western blot using Rockland's affinity purified anti-FANCC antibody shows detection of a band at ~63 kDa (arrowhead) corresponding to FANCC present in a HeLa whole cell lysate (p/n W09-000-364). The identity of the lower molecular weight band is unknown. Approximately 35µg of lysate was separated by 4-20% Tris Glycine SDS-PAGE. After blocking, the membrane was probed overnight at 4°C with the primary antibody diluted to 1:1,500 in PBS supplemented with 1% normal goat serum and 0.1% BLOTTO (p/n B501-0500). The membrane was washed and reacted with a 1:10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] (p/n 611-132-122) for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers (indicated at left). IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

## Disclaimer

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