

Rabbit anti-Human FANCC Polyclonal Antibody | anti-FANCC antibody

Anti-FANCC Antibody Picoband

CATALOG # AAA127112	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

FANCC; Polyclonal Antibody; Anti-FANCC Antibody Picoband; caspase 2; apoptosis-related cysteine peptidase; Caspase-2; CASP-2; Neural precursor cell expressed developmentally down-regulated protein 2; NEDD-2; Protease ICH-1; Caspase-2 subunit p18; Caspase-2 subunit p13; Caspase-2 subunit p12; CASP2; ICH1; NEDD2; anti-FANCC antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-FANCC antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human FANCC recombinant protein (Position: M1-V558).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U2OS cells using anti-FANCC antibody (AAA127112).Overlay histogram showing U2OS cells stained with AAA127112 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-FANCC Antibody (AAA127112, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)
Figure 1. Western blot analysis of FANCC using anti-FANCC antibody (AAA127112).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human Hacat whole cell lysates,Lane 4: human A431 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FANCC antigen affinity purified polyclonal antibody (#AAA127112) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for FANCC at approximately 63 kDa. The expected band size for FANCC is at 63 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-FANCC antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-FANCC antibody	Primary Antibodies; Apoptosis; Apoptotic Markers; Cancer; Caspases; Cell Biology; Cell Death; Intracellular; Invasion/Microenvironment; Metabolism; Metabolism Processes; Pathways and Processes; Proteolysis/Ubiquitin; Proteolytic Enzymes
References	1. Chen, M., Tomkins, D. J., Auerbach, W., McKerlie, C., Youssoufian, H., Liu, L., Gan, O., Carreau, M., Auerbach, A., Groves, T., Guidos, C. J., Freedman, M. H., Cross, J., Percy, D. H., Dick, J. E., Joyner, A. L., Buchwald, M. Inactivation of Fac in mice produces inducible chromosomal instability and reduced fertility reminiscent of Fanconi anaemia. Nature Genet. 12: 448-451, 1996. 2. Donahue, S. L., Campbell, C. A DNA double strand break repair defect in Fanconi anemia fibroblasts. J. Biol. Chem. 277: 46243-46247, 2002.3. Garcia-Higuera, I., Kuang, Y., Naf, D., Wasik, J., D'Andrea, A. D. Fanconi anemia proteins FANCA, FANCC, and FANCG/XRCC9 interact in a functional nuclear complex. Molec. Cell. Biol. 19: 4866-4873, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1706762
NCBI GeneID	2176
UniProt Accession #	Q00597; B1ALR8
Molecular Weight	558
NCBI Official Full Name	Fanconi anemia group C protein
NCBI Official Synonym Full Names	Fanconi anemia, complementation group C
NCBI Official Symbol	FANCC
NCBI Official Synonym Symbols	FA3; FAC; FACC
NCBI Protein Information	Fanconi anemia group C protein
UniProt Protein Name	Fanconi anemia group C protein
UniProt Gene Name	FANCC
UniProt Synonym Gene Names	FAC; FACC; Protein FACC
UniProt Entry Name	FANCC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fancc-antibody-flow-cytometry-western-blot-elisa/127112>