

Rabbit RFC3 Polyclonal Antibody | anti-RFC3 antibody

Anti-RFC3 Antibody Picoband

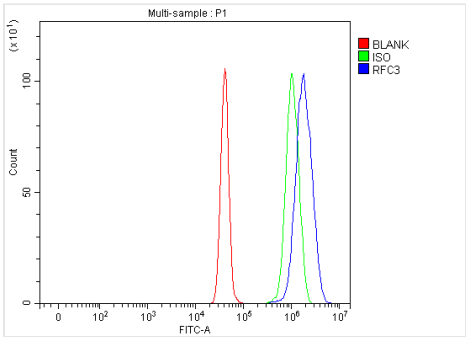
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127372	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RFC3; Polyclonal Antibody; Anti-RFC3 Antibody Picoband; reversion inducing cysteine rich protein with kazal motifs; Reversion-inducing cysteine-rich protein with Kazal motifs; hRECK; Suppressor of tumorigenicity 15 protein; RECK; ST15; anti-RFC3 antibody

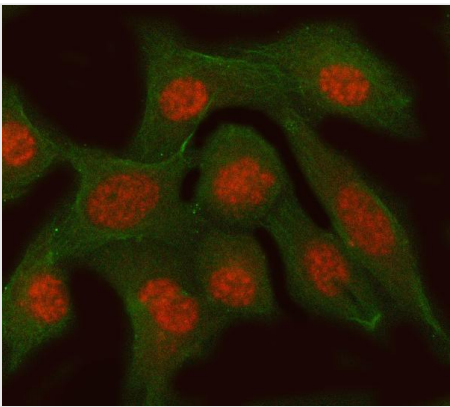
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in various tissues and untransformed cells. It is undetectable in tumor-derived cell lines and oncogenically transformed cells.
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-RFC3 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human RFC3 recombinant protein (Position: D6-E333).
Subcellular Localization	Cell membrane, Lipid-anchor, GPI-anchor
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	Negatively regulates matrix metalloproteinase-9 (MMP-9) by suppressing MMP-9 secretion and by inhibition of its enzymatic activity. RECK down-regulation by oncogenic signals may facilitate tumor invasion and metastasis. Appears to also regulate MMP-2 and MT1-MMP, which are involved in cancer progression.
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.



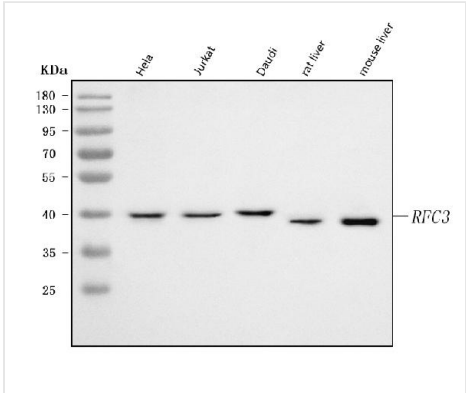
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-RFC3 antibody (AAA127372).Overlay histogram showing U251 cells stained with AAA127372 (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-RFC3 Antibody (AAA127372, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of RFC3 using anti-RFC3 antibody (AAA127372) and anti-Tubulin Alpha antibody (M03989-3).RFC3 was detected in immunocytochemical section of PC-3 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-RFC3 Antibody (AAA127372) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of RFC3 using anti-RFC3 antibody (AAA127372).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 Jurkat whole cell lysates,Lane 3: human Daudi whole cell lysates,Lane 4: rat liver tissue lysates,Lane 5: mouse liver tissue 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-RFC3 antigen affinity purified polyclonal antibody (#AAA127372) 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 RFC3 at approximately 40 kDa. The expected band size for RFC3 is at 41 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RFC3 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-RFC3 antibody	Primary Antibodies; Cancer; Cell Biology; Oncoproteins/Suppressors; Protease Inhibitors; Proteolysis/Ubiquitin; Tumor Suppressors

References	1. Bowman, G. D., O'Donnell, M., Kuriyan, J. Structural analysis of a eukaryotic sliding DNA clamp-clamp loader complex. Nature 429: 724-730, 2004.2. Okumura, K., Nogami, M., Taguchi, H., Dean, F. B., Chen, M., Pan, Z.-Q., Hurwitz, J., Shiratori, A., Murakami, Y., Ozawa, K., Eki, T. Assignment of the 36.5-kDa (RFC5), 37-kDa (RFC4), 38-kDa (RFC3), and 40-kDa (RFC2) subunit genes of human replication factor C to chromosome bands 12q24.2-q24.3, 3q27, 13q12.3-q13, and 7q11.23. Genomics 25: 274-278, 1995.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	3915601
NCBI GeneID	5983
UniProt Accession #	P40938; O15252; Q5W0E8; C9JU95
Molecular Weight	356
NCBI Official Full Name	Replication factor C subunit 3
NCBI Official Synonym Full Names	replication factor C (activator 1) 3, 38kDa
NCBI Official Symbol	RFC3
NCBI Official Synonym Symbols	RFC38
NCBI Protein Information	replication factor C subunit 3; A1 38 kDa subunit; RFC, 38 kD subunit; RF-C 38 kDa subunit; activator 1 subunit 3; activator 1 38 kDa subunit; replication factor C 38 kDa subunit
UniProt Protein Name	Replication factor C subunit 3
UniProt Gene Name	RFC3
UniProt Synonym Gene Names	A1 38 kDa subunit; RF-C 38 kDa subunit; RFC38
UniProt Entry Name	RFC3_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.