

Rabbit anti-Human CDC7 Polyclonal Antibody | anti-CDC7 antibody

Anti-CDC7 Antibody Picoband

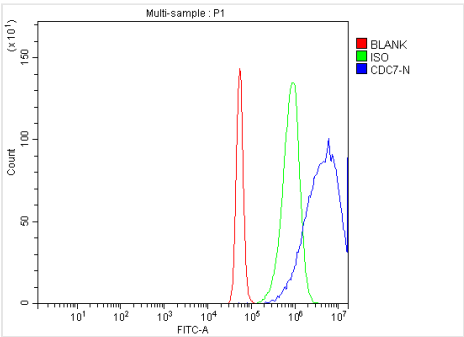
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126121	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

CDC7; Polyclonal Antibody; Anti-CDC7 Antibody Picoband; anti-CDC7 antibody

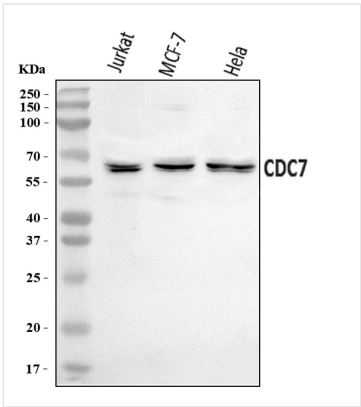
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human C2
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-CDC7 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Samples	Cell culture supernatants, serum, plasma(heparin, EDTA, citrate) and urine
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<20 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store 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 A431 cells using anti-CDC7 antibody (AAA126121).Overlay histogram showing A431 cells stained with AAA126121 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CDC7 Antibody (AAA126121, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DylLight488 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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of CDC7 using anti-CDC7 antibody (AAA126121).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 Jurkat whole cell lysates,Lane 2: human MCF-7 whole cell lysates,Lane 3: human HeLa 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-CDC7 antigen affinity purified polyclonal antibody (#AAA126121) at 0.5 ug/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 CDC7 at approximately 64 kDa. The expected band size for CDC7 is at 64 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CDC7 antibody	Background: Complement C2 is a protein that in humans is encoded by the C2 gene. Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene localizes within the class III region of the MHC on the short arm of chromosome 6. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described in publications but their full-length sequence has not been determined. Principle of the Assay: The Picokine™ Human C2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human C2 with a 96-well strip plate that is pre-coated with antibody specific for C2. The detection antibody is a biotinylated antibody specific for C2. The capture antibody is monoclonal antibody from mouse and the detection antibody is biotinylated polyclonal antibody from goat. The kit contains recombinant Human C2 with immunogen: Expression system for standard: NS0; Immunogen sequence: A21-L752. The kit is analytically validated with ready-to-use reagents. To measure Human C2, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human C2 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human C2 in the sample.
Product Categories/Family for anti-CDC7 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	197313665
NCBI GeneID	8317

NCBI Accession #	NP_001127891.1
NCBI GenBank Nucleotide #	NM_001134419.1
UniProt Accession #	O00311 ; O00558 ; Q5T5U5 ; D3DT31
Molecular Weight	63,888 Da
NCBI Official Full Name	cell division cycle 7-related protein kinase
NCBI Official Synonym Full Names	cell division cycle 7
NCBI Official Symbol	CDC7
NCBI Official Synonym Symbols	Hsk1; CDC7L1; HsCDC7; huCDC7
NCBI Protein Information	cell division cycle 7-related protein kinase; CDC7-related kinase; cell division cycle 7 homolog; cell division cycle 7-like protein 1; CDC7 (cell division cycle 7, <i>S. cerevisiae</i> , homolog)-like 1
UniProt Protein Name	Cell division cycle 7-related protein kinase
UniProt Gene Name	CDC7
UniProt Synonym Gene Names	CDC7L1; CDC7-related kinase; HsCdc7; huCdc7
UniProt Entry Name	CDC7_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/cdc7-antibody-flow-cytometry-western-blot-elisa/126121>