

## Rabbit CD7 Polyclonal Antibody | anti-CD7 antibody

Anti-CD7 Picoband antibody

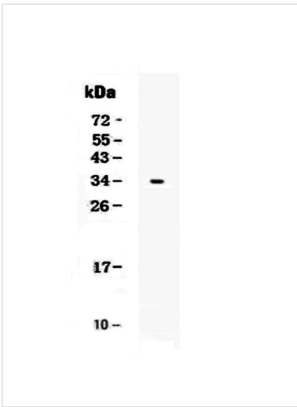
| CATALOG # | HOST   | REACTIVITY                                    | APPLICATIONS                                                                                     |
|-----------|--------|-----------------------------------------------|--------------------------------------------------------------------------------------------------|
| AAA124676 | Rabbit | HumanNo cross reactivity with other proteins. | Western Blot, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA |

### PRODUCT SYNONYMS

CD7; Polyclonal Antibody; Anti-CD7 Picoband antibody; T-cell antigen CD7; GP40; T-cell leukemia antigen; T-cell surface antigen Leu-9; TP41; anti-CD7 antibody

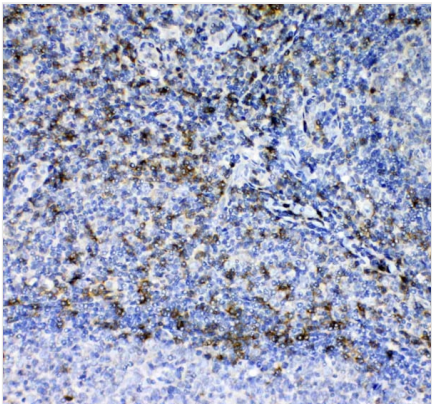
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                     |
| Reactivity                                    | Human<br>No cross reactivity with other proteins.                                                                                                                                                          |
| Clonality                                     | Polyclonal                                                                                                                                                                                                 |
| Form/Format                                   | Lyophilized                                                                                                                                                                                                |
| Sequence Length                               | 240                                                                                                                                                                                                        |
| Applicable Applications for anti-CD7 antibody | WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA                                                                                                 |
| Immunogen                                     | E Coli-derived human CD7 recombinant protein (Position: A26-D172).                                                                                                                                         |
| Reconstitution                                | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Contents                                      | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                                  |
| Preparation and Storage                       | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |



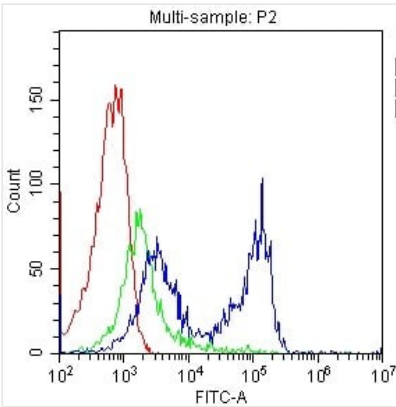
WB (Western Blot)

Figure 3. Western blot analysis of CD7 using anti-CD7 antibody (AAA124676). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant human CD7 protein 1ng. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-CD7 antigen affinity purified polyclonal antibody 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 1:10000 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 CD7 at approximately 30-40KD. The expected band size for CD7 is at 18KD.



IHC (Immunohistochemistry)

Figure 1. IHC analysis of CD7 using anti-CD7 antibody (AAA124676). CD7 was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD7 Antibody (AAA124676) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of PBMC cells using anti-CD7 antibody (AAA124676). Overlay histogram showing PBMC cells stained with AAA124676 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD7 Antibody (AAA124676, 1ug/1x10^6 cells) for 30 min at 20 degree C. DyLight 488 conjugated goat anti-rabbit IgG (5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD7 antibody | CD7 (Cluster of Differentiation 7) is a protein that in humans is encoded by the CD7 gene. This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development. |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|             |         |
|-------------|---------|
| NCBI GI #   | 5453613 |
| NCBI GeneID | 924     |

|                                  |                             |
|----------------------------------|-----------------------------|
| NCBI Accession #                 | <a href="#">NP_006128.1</a> |
| NCBI GenBank Nucleotide #        | <a href="#">NM_006137.6</a> |
| UniProt Accession #              | <a href="#">P09564</a>      |
| Molecular Weight                 | 25,409 Da                   |
| NCBI Official Full Name          | T-cell antigen CD7          |
| NCBI Official Synonym Full Names | CD7 molecule                |
| NCBI Official Symbol             | CD7                         |
| NCBI Official Synonym Symbols    | GP40; TP41; Tp40; LEU-9     |
| NCBI Protein Information         | T-cell antigen CD7          |
| UniProt Protein Name             | T-cell antigen CD7          |
| UniProt Gene Name                | <b>CD7</b>                  |

**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://www.aaabiotech.com/polyclonal/cd7-antibody-western-blot-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/124676>