

**Anti-CD7 Picoband Antibody**  
Catalog # ABO10221**Specification****Anti-CD7 Picoband Antibody - Product Information**

Application	IHC-P, FC, E
Primary Accession	<a href="#">P09564</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for CD7 detection. Tested with IHC-P, FCM, Direct ELISA in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-CD7 Picoband Antibody - Additional Information**

Gene ID 924

**Other Names**

T-cell antigen CD7, GP40, T-cell leukemia antigen, T-cell surface antigen Leu-9, TP41, CD7, CD7

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml  
Flow Cytometry, 1-3<sup>1/4</sup>g/1x10<sup>6</sup> cells  
Direct ELISA, 0.1-0.5 µg/ml

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E. coli-derived human CD7 recombinant protein (Position: A26-D172).

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

At -20°C; for one year. After r°Constitution, at 4°C; for one month. It°Can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and thawing.

**Anti-CD7 Picoband Antibody - Protein Information**

Name CD7

**Function**

Transmembrane glycoprotein expressed by T-cells and natural killer (NK) cells and their precursors (PubMed:<a href="http://www.uniprot.org/citations/7506726" target="\_blank">7506726</a>). Plays a costimulatory role in T-cell activation upon binding to its ligand K12/SECTM1 (PubMed:<a href="http://www.uniprot.org/citations/10652336" target="\_blank">10652336</a>). In turn, mediates the production of cytokines such as IL-2 (PubMed:<a href="http://www.uniprot.org/citations/1709867" target="\_blank">1709867</a>). On resting NK-cells, CD7 activation results in a significant induction of interferon-gamma levels (PubMed:<a href="http://www.uniprot.org/citations/7506726" target="\_blank">7506726</a>).

**Cellular Location**

Membrane; Single-pass type I membrane protein.

**Tissue Location**

Expressed on T-cells and natural killer (NK) cells and their precursors.

**Anti-CD7 Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-CD7 Picoband Antibody - Images****Anti-CD7 Picoband Antibody - Background**

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.