

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone T3-3A1]
Catalog # AH12631**Specification****CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide - Product Information**

| | |
|-------------------|--|
| Application | IF, FC |
| Primary Accession | P09564 |
| Other Accession | 924 , 186820 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | Mouse / IgG1, kappa |
| Calculated MW | 40kDa KDa |

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide - 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 Note

IF~~1:50~200<br \><span class
="dilution_FC">FC~~1:10~50

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide - Protein Information**Name** CD7**Function**

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

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

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

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide - 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](#)

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide - Images**CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide - Background**

Recognizes a protein of 40kDa, identified as CD7, a member of the immunoglobulin gene superfamily. Its N-terminal amino acids 1-107 are highly homologous to Ig kappa-L chains whereas the carboxyl-terminal region of the extracellular domain is proline-rich and has been postulated to form a stalk from which the Ig domain projects. CD7 is expressed on the majority of immature and mature T-lymphocytes, and T cell leukemia. It is also found on natural killer cells, a small subpopulation of normal B cells and on malignant B cells. Cross-linking surface CD7 positively modulates T cell and NK cell activity as measured by calcium fluxes, expression of adhesion molecules, cytokine secretion and proliferation. CD7 associates directly with phosphoinositol 3'-kinase. CD7 ligation induces production of D-3 phosphoinositides and tyrosine phosphorylation.

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide - References

Haynes BF, et al. Human lymphocyte antigens: production of a monoclonal antibody that defines functional thymus-derived lymphocyte subsets. Proc. Natl. Acad. Sci. USA 76: 5829-5833, 1979. | Eisenbarth GS, et al. Production of monoclonal antibodies reacting with peripheral blood mononuclear cell surface differentiation antigens. J. Immunol. 124: 1237-1244, 1980. | Haynes BF, et al. Characterization of a monoclonal antibody that defines an immunoregulatory T cell subset for immunoglobulin synthesis in humans. Proc. Natl. Acad. Sci. USA 77: 2914-2918, 1980. | Prieyl JA, LeBien TW. Interleukin 7 independent development of human B cells. Proc. Natl. Acad. Sci. USA 93: 10348-10353, 1996