

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone 124-1D1]
Catalog # AH12627**Specification**

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

Application	,3,4,
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

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 (Workshop IV; Code T155). CD7 is 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

Knapp W et al. eds. Leukocyte typing IV, p341, Oxford University Press, Oxford, 1989 | Miwa H, et al. Biological characteristics of CD7(+) acute leukemia. Leuk. Lymphoma. 1996, 21(3-4):239-244. Rabinowich H, et al. Signaling via CD7 molecules on human NK cells. Induction of tyrosine phosphorylation and beta 1 integrin-mediated adhesion to fibronectin J. Immunol. 1994;153(8):3504-3513. | Saxena A, et al. Biologic and clinical significance of CD7 expression in acute myeloid leukemia. Am J Hematol. 1998, 58(4):278-84