

CD7 (T-Cell Leukemia Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone B-F12]
Catalog # AH12623**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, Pig, Guinea Pig
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, 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 \>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 (also known as gp40, Leu9). 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, 1989.2. Miwa H, et al biological characteristics of CD7(+) acute leukemia. Leuk Lymphoma. 1996;21:239-44. 3. Rabinowich H, et al. J. Immunol. 1994 153(8):3504-3513.4. Emara M, et al. A human suppressor T-cell factor that inhibits T-cell replication by interaction with the IgM-Fc receptor (CD7). Hum Immunol. 1989;25(2):87-102.5. Thurlow PJ, A monoclonal antibody detecting a new human T cell antigen, HuLy-m2. Transplantation 1984, 38(2):143-147.6. Saxena A, et al. Biologic and clinical significance of CD7 expression in acute myeloid leukemia. Am J Hematol. 1998;58(4):278-84