

anti-human CD7

Monoclonal antibody LT7 to CD7 (Human)

Cat-No: **21380071**

100 µg in 100 µl

Clone: LT7

Specificity: The antibody LT7 reacts with CD7, a 40 kD type I transmembrane glycoprotein expressed on peripheral blood T lymphocytes, NK-cells, hematopoietic progenitors, monocytes (weakly) and also on acute lymphocytic leukemia.

Species Reactivity: Human

Isotype subclass: Mouse IgG2a

Form: Purified from ascites by DEAE chromatography.

Purity: > 95% tested by SDS-PAGE

Physical state: Liquid

Buffer/Additives/Preservative: PBS with 0.09 % sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Flow Cytometry
Immunoprecipitation

References:

*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

*Alaibac M and others: CD7 expression in reactive and malignant human skin T-lymphocytes. *Anticancer Res.* 2003

*Lam GK and others: Expression of the CD7 ligand K-12 in human thymic epithelial cells: regulation by IFN-gamma. *J Clin Immunol.* 2005 Jan;25(1):41-9.

Background: CD7 is a 40 kDa transmembrane, single-chain glycoprotein, which is a member of the immunoglobulin superfamily. CD7 is expressed by the majority of thymocytes and mature T cells, NK cells and pre-B cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.

The function of CD7 is not yet known although cross-linking of CD7 with antibodies induces a T cell transmembrane calcium flux and CD7 expression is induced by ionomycin. The CD7 molecule has been reported to be the receptor of the IgM-Fc portion (FcR mu) on the surface of T cells.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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