

anti-human CD10 PE/Dy590 conjugated

PE/Dy590- conjugated monoclonal antibody MEM-78 to human CD10

Cat-No: **21270107.5**

500 µl

Clone: MEM-78

Specificity: The antibody MEM-78 reacts with CD10 antigen (CALLA-Common acute lymphatic leukemia antigen), a 100 kDa type II integral membrane protein expressed on uncommitted lymphoid precursors. It is also expressed on activated and proliferating B cells in the germinal centers and granulocytes. HLDA IV; WS Code B 506 / HLDA IV; WS Code B CD10.4

Isotype subclass: Mouse IgG1

Form: The purified antibody is conjugated with tandem dye PE-Dynamics 590 (PE-Dy590) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1% BSA and 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. Avoid prolonged exposure to light.

Application: Flow Cytometry

References:

- [1] Horejsi V, Angelisova P, Bazil V, Kristofova H, Stoyanov S, Stoyanov I, Hausner P, Vosecky M; Hilgert I.: Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45(T200), CD3(T3), CD43; CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74). Folia Biol (Praha): 1988;34(1):23-34.
- [2] Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989).

Background: CD10 (neutral endopeptidase NEP, common acute lymphocytic leukemia antigen CALLA, membrane metallo-endopeptidase MME, enkefalinase) is a 100-kDa cell surface zinc metalloprotease cleaving peptide bonds on the N-terminus of hydrophobic amino acids and inactivating multiple physiologically active peptides. CD10 is expressed on various normal cell types, including lymphoid precursor cells, germinal center B lymphocytes, and some epithelial cells, and its expression level serves as a marker for diagnostics of many carcinomas. CD10 is also a differentiation antigen for early B-lymphoid progenitors in the B-cell differentiation pathway and has a key role in regulation of growth, differentiation and signal transduction of many cellular systems.

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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