

anti-human CD10

Monoclonal Antibody HI10a to CD10 (Human)

Cat-No: **21810101**

100 µg in 100 µl

Clone: HI10a

Specificity: The antibody HI10a 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 lymphocytes in the germinal centers and granulocytes.

Isotype subclass: Mouse IgG1

Form: Purified by protein G affinity chromatography

Purity: > 95% (by SDS-PAGE).

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 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

Background: CD10 (neutral endopeptidase NEP, common acute lymphocytic leukemia antigen CALLA, membrane metallo-endopeptidase MME, enkephalinase) 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.

References: Leucocyte Typing V. Schlossmann S. et al. (Eds.), White Cell Differentiation Antigens, Oxford University Press New York (1995).

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.

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