

anti-human CD17

Monoclonal Antibody HIP10 to CDw17 (Human)

Cat-No: **21810171**

100 µg in 100 µl

Clone: HIP10

Specificity: The antibody HIP10 recognizes CDw17, a membrane lipid moiety lactosylceramide expressed on granulocytes, monocytes and platelets.

Isotype subclass: Mouse IgM

Form: Purified by hydroxyapatite hydrophobic 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, Immunofluorescence

References: Leucocyte Typing VI. Tadamitsu L et al. (Eds.), White Cell Differentiation Antigens, Garland Publishing New York (1997).

Background: **CD17**, lactosylceramide, is an ubiquitous glycosphingolipid with uncharged disaccharide headgroup, highly enriched in lipid raft-derived structures. Besides playing a pivotal role in the biosynthesis of complex glycosphingolipids, lactosylceramide is involved in cell-cell and cell-matrix interactions and in signaling events linked to cell differentiation, development, apoptosis and oncogenesis. Lactosylceramide regulates integrin functions and production of nitric oxide. Its expression defines successive stages in the maturation of myeloid cells.

Lactosylceramide (LaCer) is present on peripheral blood granulocytes including basophils, monocytes, platelets and a subset of B cells (40-80% CD19+). In tissues, CDw17 is found on tonsillar dendritic cells, epithelial cells, intestinal epithelium and endothelial. CDw17 antigen may play a role in phagocytosis.

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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