

anti-human CD71

Monoclonal Antibody LT71 to CD71 (human)

Cat-No: 21380711

100 µg in 100 µl

Clone: LT71

Specificity: The antibody LT71 reacts with CD71 antigen (transferrin receptor), a 95 kDa type II homodimeric transmembrane glycoprotein expressed on activated B and T lymphocytes, macrophages and erythroid precursors; it is lost on resting blood leukocytes.

The antibody LT71 does not block binding of transferrin to the receptor.

Isotype subclass: Mouse IgG2a

Purity: > 95% (by SDS-PAGE)

Form: Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Physical state: Liquid

Buffer/Additives/Preservative: PBS, pH 7.2, containing 0.09% sodium azide.

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: Application: Flow Cytometry, Immunoprecipitation

Background: The **CD71** antibody recognizes the transferrin receptor, which is essential for iron transport into proliferating cells. **CD71** is expressed on marrow stromal cells (MSCs) from bone marrow¹, on activated T and B lymphocytes, macrophages, and all proliferating cells. It is upregulated on lymphocytes during proliferative responses to antigens or mitogens but is not expressed on resting lymphocytes. **CD71** is present on reticulocytes and erythroid progenitors in fetal liver, cord blood, and peripheral blood, yet it is lost as these differentiate to mature erythrocytes.

References: Rouault TA: 2003 Dec;1(3):E79.

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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