

anti-human CD71 FITC-conjugated

The antibody MEM-75 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 MEM-75 does not block binding of transferrin to the receptor.

CD71 (transferrin receptor) is a type II transmembrane glycoprotein expressed as homodimer in erythroid blood cell line and in activated leukocytes. Upon binding of holotransferrin (complex of transferrin and iron ions) CD71 is internalized by clathrin-mediated endocytosis. Acidification of endosomes by vesicular membrane proton pumps leads to dissociation of iron ions, whereas transferrin (apotransferrin) remains associated with CD71 and recycles to the cell surface, where it is released upon exposure to normal pH. CD71 is also involved in uptake of non-transferrin bound iron.

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| Clone: | MEM-75 |
| Isotype: | Mouse IgG1 |
| Physical state: | Liquid for direct use |
| Form: | purified antibody conjugated with Fluorescein isothiocyanate (FITC) |
| Buffer: | PBS containing 1% BSA and 0.1% sodium azide (pH 7.4) |
| Storage: | Store at 4 °C. Do not freeze. Avoid prolonged exposure to light. |
| Application: | Flow Cytometry |
| Reference: | Rouault TA: 2003 Dec;1(3):E79. Taketani S: 2005 Apr;205(4):297-318. Graham Rmand other: 2007 Sep 21;13(35):4725-36 |
| Quantity: | 1.0 ml |
| Order N°: | H12205F |

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).

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