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Monoclonal Antibody to CD65s - FITC

Alternate names: CDw65

Catalog No.: AM05590FC-N

Quantity: 0.1 mg

Concentration: 0.1mg/ml

Background: CD65 is a leucocyte carbohydrate antigen expressed by granulocytes, monocytes and leukaemic cells of myelomonocytic lineage.
CD65s is aberrantly expressed on some acute myeloid leukaemias (AML) and clone VIM-2 has been reliably used as a marker for distinguishing between mature and undifferentiated AML. During normal myelopoiesis, expression of CD65s follows the disappearance of the progenitor antigen CD34.

Host / Isotype: Mouse / IgM

Clone: VIM-2

Immunogen: THP1 (human acute monocytic leukaemia cells)

Format: **State:** Liquid purified IgM
Purification: Ammonium sulphate precipitation
Buffer System: Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide (NaN3), 1% Bovine Serum Albumin
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: Flow Cytometry: 1/10.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody selectively recognises the sialylated form of human CD65, known as CD65s (VIM-2 antigen).
Cross-linking of the CD65s antigen using clone VIM-2, has been shown to induce phagocyte cytoplasmic calcium flux, oxidative burst and degranulation.
Species: Human.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

Caution: (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

General Readings: 1. Gooi HC, Hounsell EF, Edwards A, Majdic O, Knapp W, Feizi T. Differences in the fine specificities of monoclonal (Class A) antibodies to human myeloid cells. Clin Exp Immunol.

1985 Apr;60(1):151-8. PubMed PMID: 2408796.
2. Lund-Johansen F, Olweus J, Horejsi V, Skubitz KM, Thompson JS, Vilella R, et al. Activation of human phagocytes through carbohydrate antigens (CD15, sialyl-CD15, CDw17, and CDw65). J Immunol. 1992 May 15;148(10):3221-9. PubMed PMID: 1349618.
3. Knapp W, Strobl H, Majdic O. Flow cytometric analysis of cell-surface and intracellular antigens in leukemia diagnosis. Cytometry. 1994 Dec 15;18(4):187-98. PubMed PMID: 7534675.
4. Lund-Johansen F, Bjerknes R, Laerum OD. Flow cytometric assay for the measurement of human bone marrow phenotype, function and cell cycle. Cytometry. 1990;11(5):610-6. PubMed PMID: 2379452.