TECHNICAL DATA SHEET

CyFlow™ CD17 Purified
Anti-Hu; Clone MEM-68

REF **CX623074**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD17
Alternative Names	Lactosylceramide
Clone	MEM-68
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgM
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Pre-B cell line NALM-6

Specificity

The mouse monoclonal antibody MEM-68 recognizes CD17 antigen, a membrane lipid moiety lactosylceramide expressed on granulocytes, monocytes and platelets.

Contact Information:

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry

Storage Buffer

The reagent is provided in Tris buffered saline (TBS) solution, pH ≈8.0, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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 glycosphingilipids, 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.

References

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- Spychalska J, Smoleńska-Sym G, Zdebska E, Woźniak J, Kościelak J: Quantitative analysis of LacCer/CDw17 in human myelogenous leukaemic cells. Cell Mol Biol Lett. 2003; 8(4):911-7. < PMID: 14668914 >
- Pannu R, Singh AK, Singh I: A novel role of lactosylceramide in the regulation of tumor necrosis factor alpha-mediated proliferation of rat primary astrocytes: Implications for astrogliosis following neurotrauma. J Biol Chem. 2005 Apr 8; 280(14):13742-51. < PMID: 15668227 >

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- Zhai X, Li XM, Momsen MM, Brockman HL, Brown RE: Lactosylceramide: lateral interactions with cholesterol. Biophys J. 2006 Oct 1; 91(7):2490-500. < PMID: 16829567 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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