



11-666-C100

Monoclonal Antibody to CD17 Purified Antibody (0.1 mg)

Clone:	MEM-68
Isotype:	Mouse IgM
Specificity:	The mouse monoclonal antibody MEM-68 recognizes CD17, a membrane lipid moiety lactosylceramide expressed on granulocytes, monocytes and platelets.
Regulatory Status:	RUO
Immunogen:	Pre-B cell line NALM-6
Species Reactivity:	Human
Application:	Flow Cytometry Recommended dilution:2 µg/ml
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by precipitation and chromatography
Concentration:	1 mg/ml
Storage Buffer:	Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
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.
References:	*Bhunia AK, Arai T, Bulkley G, Chatterjee S: Lactosylceramide mediates tumor necrosis factor-alpha-induced intercellular adhesion molecule-1 (ICAM-1) expression and the adhesion of neutrophil in human umbilical vein endothelial cells. <i>J Biol Chem.</i> 1998 Dec 18;273(51):34349-57. *Spsychalska J, Smoleńska-Sym G, Zdebska E, Woźniak J, Kościelak J: Quantitative analysis of LacCer/CDw17 in human myelogenous leukaemic cells. <i>Cell Mol Biol Lett.</i> 2003;8(4):911-7. *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. <i>J Biol Chem.</i> 2005 Apr 8;280(14):13742-51. *Sharma DK, Brown JC, Cheng Z, Holicky EL, Marks DL, Pagano RE: The glycosphingolipid, lactosylceramide, regulates beta1-integrin clustering and endocytosis. <i>Cancer Res.</i> 2005 Sep 15;65(18):8233-41. *Zhai X, Li XM, Momsen MM, Brockman HL, Brown RE: Lactosylceramide: lateral interactions with cholesterol. <i>Biophys J.</i> 2006 Oct 1;91(7):2490-500.

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Antibodies

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz