

# CD17 (MEM-74): sc-51527

## BACKGROUND

CD17 (also designated Lactosylceramide or LacCer) is an intermediate glycosphingolipid from the metabolism of higher gangliosides that localizes to sphingolipid-sterol rafts. CD17 is detectable in monocytes, granulocytes, basophils, platelets, a subset of peripheral B cells (CD19<sup>+</sup>) and tonsillar dendritic cells. It is rapidly downregulated on activated granulocytes; and is upregulated on IL-2 activated T lymphocytes. CD17 binds to bacteria and may function in phagocytosis. VEGF-treated endothelial cells can produce CD17, which can then mediate signaling toward PECAM-1 expression and angiogenesis. Tumor necrosis factor  $\alpha$  (TNF $\alpha$ )-induced astrogliosis (astrocyte proliferation and glial fibrillary acidic protein (GFAP) upregulation) in response to neuroinflammation (i.e. spinal cord injury) causes an increase in intracellular levels of CD17. Aberrant levels of glycosphingolipids are a feature of cancer cells and may influence integrin clustering and internalization.

## REFERENCES

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## SOURCE

CD17 (MEM-74) is a mouse monoclonal antibody raised against pre-B cell line NALM-6 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

CD17 (MEM-74) is recommended for detection of CD17 of human origin by flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.