CD59 (YTH53.1): sc-59095

BACKGROUND
CD59 is a GPI-anchored glycoprotein that is expressed on leukocytes, vascular endothelial cells, various epithelial cells and placenta. CD59 acts together with CD58 in mediating T cell adhesion and activation, and it may be a second ligand of CD2. CD59 functions as a regulator of the terminal pathway of complement by binding to the C8/C9 components of the assembling membrane attack complex (MAC) on host cell membranes, to stop the formation of the lytic pore. CD59 also drives both calcium release and activation of lipid-raft associated signalling molecules such as tyrosine kinases. CD59 gene has two p53-responsive domains that may be implicated in the defense of host cells from damage by the complement system in inflammation, suggesting that p53 could be used to mediate susceptibility of tumor cells to the complement lysis during chemotherapy.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: CD59 (human) mapping to 11p13; Cd59a (mouse) mapping to 2 E2.

SOURCE
CD59 (YTH53.1) is a rat monoclonal antibody raised against peripheral blood T cells of human origin.

PRODUCT
Each vial contains 200 µg IgGg in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS
CD59 (YTH53.1) is recommended for detection of CD59 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 10-20 µl) and flow cytometry (1 µg per 1 x 10^6 cells).


Molecular Weight of CD59: 20 kDa.
Positive Controls: BJAB whole cell lysate: sc-2207, ES-2 cell lysate: sc-24674 or Caki-1 cell lysate: sc-2224.

DATA
CD59 (YTH53.1) sc-59095. Western blot analysis of CD59 expression in BJAB (A), HUV-EC-C (B), A-431 (C), HeLa (D) and HL-60 (E) whole cell lysates.

SELECT PRODUCT CITATIONS

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 website at www.scbt.com for detailed protocols and support products.