

CD59 (h): 293T Lysate: sc-175180

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

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3. Giddings, K.S., et al. 2004. Human CD59 is a receptor for the cholesterol-dependent cytolysin intermedilysin. *Nat. Struct. Mol. Biol.* 11: 1173-1178.
4. Lin, F., et al. 2004. Respective roles of decay-accelerating factor and CD59 in circumventing glomerular injury in acute nephrotoxic serum nephritis. *J. Immunol.* 172: 2636-2642.
5. Storstein, A., et al. 2004. Heterogeneous expression of CD59 on human Purkinje cells. *Neurosci. Lett.* 362: 21-25.
6. Yamada, K., et al. 2004. Critical protection from renal ischemia reperfusion injury by CD55 and CD59. *J. Immunol.* 172: 3869-3875.
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CHROMOSOMAL LOCATION

Genetic locus: CD59 (human) mapping to 11p13.

PRODUCT

CD59 (h): 293T Lysate represents a lysate of human CD59 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

CD59 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CD59 antibodies.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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