

CD55 (I-19): sc-7067

BACKGROUND

CD55, also called decay accelerating factor (DAF), is a GPI-anchored single chain glycoprotein. CD55 may play a role in protecting cells from complement-mediated lysis by preventing the amplification steps of the complement cascade. CD55 functions to prevent the assembly of C3 convertase or to accelerate the disassembly of preformed convertase, which blocks formation of the membrane attack complex. CD55 is expressed on cells in contact with serum, including hematopoietic and many non-hematopoietic cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Daf1* (mouse) mapping to 1 E4.

SOURCE

CD55 (I-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of CD55 of mouse origin.

STORAGE

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

PROTOCOLS

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

PRODUCT

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

Blocking peptide available for competition studies, sc-7067 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-7067 AC, 500 µg/0.25 ml agarose in 1 ml.

APPLICATIONS

CD55 (I-19) is recommended for detection of CD55 of mouse and rat 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 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CD55 siRNA (m): sc-35013, CD55 shRNA Plasmid (m): sc-35013-SH and CD55 shRNA (m) Lentiviral Particles: sc-35013-V.

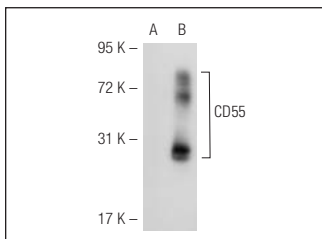
Molecular Weight of CD55: 55-80 kDa.

Positive Controls: CD55 (h): 293 Lysate: sc-110477, HeLa whole cell lysate: sc-2200 or human PBL.

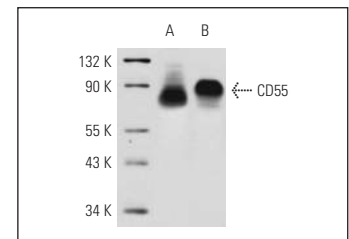
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CD55 (I-19): sc-7067. Western blot analysis of CD55 expression in non-transfected: sc-11752 (A) and mouse CD55 transfected: sc-119111 (B) 293T whole cell lysates.



CD55 (I-19): sc-7067. Western blot analysis of CD55 expression in CTLL-2 (A) and MCP-5 (B) whole cell lysates.

RESEARCH USE

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