**CD55 (NaM16-4D3): sc-51733**

**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.

**CHROMOSOMAL LOCATION**

Genetic locus: CD55 (human) mapping to 1q32.2; CD55 (mouse) mapping to 1 E4.

**SOURCE**

CD55 (NaM16-4D3) is a mouse monoclonal antibody raised against CD55 of human origin.

**PRODUCT**

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

CD55 (NaM16-4D3) is available conjugated to agarose (sc-51733 AC), 500 μg/ml agarose in 1 ml, for IP; to HRP (sc-51733 HRP), 200 μg/ml, for WB, IHC (P) and ELISA; to either phycoerythrin (sc-51733 PE), fluorescein (sc-51733 FITC), Alexa Fluor® 488 (sc-51733 AF488), Alexa Fluor® 546 (sc-51733 AF546), Alexa Fluor® 594 (sc-51733 AF594) or Alexa Fluor® 647 (sc-51733 AF647), 200 μg/ml, for WB (RGB), IF, IHC (P) and FCM; and to either Alexa Fluor® 880 (sc-51733 AF880) or Alexa Fluor® 790 (sc-51733 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

CD55 (NaM16-4D3) is recommended for detection of CD55 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 (dilution range 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μg per 1 x 10^6 cells).


Molecular Weight of CD55: 70 kDa.

Positive Controls: WiDr cell lysate: sc-24779, HeLa whole cell lysate: sc-2200 or HEL 92.1.7 cell lysate: sc-2270.

**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.

**DATA**

CD55 (NaM16-4D3): sc-51733. Western blot analysis of CD55 expression in HeLa (A), WiDr (B) and HEL 92.1.7 (C) whole cell lysates.

CD55 (NaM16-4D3): sc-51733. Immunofluorescence staining of methanol-fixed HeLa cells showing membrane localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing membrane staining of decidual cells (B).

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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