**CD58 (TS2/9.1.4.3): sc-20009**

**BACKGROUND**

CD2 also designated E-rosette receptor) interacts through its amino-terminal domain with the extracellular domain of CD58 (also designated CD2 ligand) to mediate cell adhesion. CD2/CD58 binding can enhance antigen-specific T cell activation. CD2 is a transmembrane glycoprotein that is expressed on T lymphocytes, NK cells and thymocytes, as well as on mouse B cells and rat splenic macrophages. CD58 is a heavily glycosylated protein with a broad tissue distribution in hematopoietic and other cells, including endothelium.

**REFERENCES**

1. Sanders, M.E., et al. 1988. Human memory T lymphocytes express increased levels of three cell adhesion molecules (LFA-3, CD2, and LFA-1) and three other molecules (UCHL1, C8w29, and Pgp-1) and have enhanced IFN-γ production. J. Immunol. 140: 1401-1407.


**CHROMOSOMAL LOCATION**

Genetic locus: CD58 (human) mapping to 1p13.1.

**SOURCE**

CD58 (TS2/9.1.4.3) is a mouse monoclonal antibody raised against cytolytic T lymphocytes 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.

CD58 (TS2/9.1.4.3) is available conjugated to agarose (sc-20009 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-20009HRP), 200 µg/ml, for WB, IHQ (ELISA); to either phycoerythrin (sc-20009 PE), fluorescein (sc-20009 FITC), Alexa Fluor® 488 (sc-20009 AF488), Alexa Fluor® 546 (sc-20009 AF546), Alexa Fluor® 594 (sc-20009 AF594) or Alexa Fluor® 647 (sc-20009 AF647), 200 µg/ml, for WB (RGB), IF, IHQ and FCM; and to either Alexa Fluor® 680 (sc-20009 AF680) or Alexa Fluor® 790 (sc-20009 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

CD58 (TS2/9.1.4.3) is recommended for detection of CD58 of 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)] and flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for CD58 siRNA (h): sc-42799, CD58 shRNA Plasmid (h): sc-42799-SH and CD58 shRNA (h) Lentiviral Particles: sc-42799-V.

Molecular Weight of CD58: 65-70 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, Raji whole cell lysate: sc-364236 or Ramos cell lysate: sc-2216.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™

Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

![Western blot analysis of CD58 expression in Raji (A) and Ramos (B) whole cell lysates.](image1)

![Western blot analysis of CD58 expression in CCRF-CEM(A) and Raji (B) whole cell lysates.](image2)

**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.