CD58 (TS2/9): sc-81734



The Power to Question

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 antigenspecific 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

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CHROMOSOMAL LOCATION

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

SOURCE

CD58 (TS2/9) is a mouse monoclonal antibody raised against cytolytic T lymphocytes of human origin.

PRODUCT

Each vial contains 200 $\mu g \; lg G_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD58 (TS2/9) is available conjugated to either phycoerythrin (sc-81734 PE) or fluorescein (sc-81734 FITC), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

CD58 (TS2/9) 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 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and flow cytometry (1 μ g per 1 x 10⁶ 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.

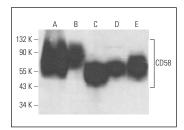
Molecular Weight of CD58: 65-70 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, HEL 92.1.7 cell lysate: sc-2270 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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



CD58 (TS2/9): sc-81734. Western blot analysis of CD58 expression in HEL 92.1.7 (A), K-562 (B), NCI-H929 (C), COLO 205 (D) and HeLa (E) whole cell lysates.

SELECT PRODUCT CITATIONS

 Sable, R., Jambunathan, N., Singh, S., Pallerla, S., Kousoulas, K.G. and Jois, S. 2018. Proximity ligation assay to study protein-protein interactions of proteins on two different cells. Biotechniques 65: 149-157.

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

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