CD9 (KMC8.8): sc-18869

BACKGROUND

CD9 is a type IV transmembrane glycoprotein with four transmembrane domains. CD9 on pre-B cells may play a role in cell-cell adhesion. In addition, CD9 may play a role in signal transduction mediated by interaction with low molecular weight GTP binding proteins. CD9 is expressed on early B cells, eosinophils, basophils and activated T cells and is a major component of the platelet cell surface. It is also expressed on most non-T acute lymphoblastic leukemia cells and on some acute myeloid and chronic lymphoid leukemias.

CHROMOSOMATIC LOCATION

Genetic locus: Cd9 (mouse) mapping to 6 F3.

SOURCE

CD9 (KMC8.8) is a rat monoclonal antibody raised against BMS2 bone marrow stromal cells of murine origin.

PRODUCT

Each vial contains 200 µg IgG2a in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available azide-free for blocking, sc-18869 L, 200 µg/0.1 ml.

CD9 (KMC8.8) is available conjugated to agarose (sc-18869 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-18869 HRP), 200 µg/ml, for WB, IHC(PE) and ELISA; to either phycoerythrin (sc-18869 PE), fluorescein (sc-18869 FITC), Alexa Fluor® 488 (sc-18869 AF488), Alexa Fluor® 546 (sc-18869 AF546), Alexa Fluor® 594 (sc-18869 AF594) or Alexa Fluor® 647 (sc-18869 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PE) and FCM; and to either Alexa Fluor® 680 (sc-18869 AF680) or Alexa Fluor® 790 (sc-18869 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

CD9 (KMC8.8) is recommended for detection of CD9 of mouse 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), 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).

Suitable for use as control antibody for CD9 siRNA (m): sc-37252, CD9 shRNA Plasmid (m): sc-37252-SH and CD9 shRNA (m) Lentiviral Particles: sc-37252-V.

Molecular Weight of CD9: 24 kDa.

Positive Controls: 3T3-L1 cell lysate: sc-2243 or B16-F0 cell lysate: sc-2238.

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

For data on CD9 (KMC8.8) HRP: sc-18869 HRP, see our web site at www.scbt.com for detailed protocols and support products.

SELECT PRODUCT CITATIONS


PROTOCOLS

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