CD43 (MT1): sc-51727



The Power to Ouestion

BACKGROUND

Over 100 cell surface markers have been identified through the use of monoclonal antibodies. Many of these markers have proven useful in identifying a specific subpopulation of cells within a mixed colony. Accordingly, these molecules have been assigned a "cluster of differentiation" (CD) designation. CD43 is the major 0-glycosylated cell-surface associated sialoglycoprotein found on the cell membranes of leukocytes. It is a member of the surface mucin family which plays a central role in cellular adhesion tumor progression. Also called leukosialin, CD43 is best known as a maker for identifying normal and neoplastic T cells and a subset of neoplastic B cells within tissues. CD43 is thought to function as a negative regulator of cellular adhesion.

REFERENCES

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- 8. Ellies, L.G., et al. 1996. The CD43 130 kDa peripheral T cell activation antigen is downregulated in thymic positive selection. Blood 88: 1725-1732.
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CHROMOSOMAL LOCATION

Genetic locus: SPN (human) mapping to 16p11.2.

SOURCE

CD43 (MT1) is a mouse monoclonal antibody raised against CD43 of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 $\mu g\ lgG_1$ in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

CD43 (MT1) is available conjugated either phycoerythrin (sc-51727 PE, 100 tests in 2 ml) or fluorescein (sc-51727 FITC, 100 tests in 2 ml), for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

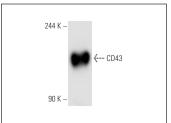
CD43 (MT1) is recommended for detection of CD43 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for CD43 siRNA (h): sc-29999, CD43 shRNA Plasmid (h): sc-29999-SH and CD43 shRNA (h) Lentiviral Particles: sc-29999-V.

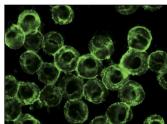
Molecular Weight of CD43: 115-130 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, SK-N-SH cell lysate: sc-2410 or Jurkat whole cell lysate: sc-2204.

DATA



CD43 (MT1): sc-51727. Western blot analysis of CD43 expression in Jurkat whole cell lysate.



CD43 (MT1): sc-51727. Immunofluorescence staining of methanol-fixed K-562 cells showing membrane localization.

SELECT PRODUCT CITATIONS

- 1. Van Handel, B., et al. 2010. The first trimester human placenta is a site for terminal maturation of primitive erythroid cells. Blood 116: 3321-3330.
- 2. Wang, Y., et al. 2020. LGR4, not LGR5, enhances hPSC hematopoiesis by facilitating mesoderm induction via TGF- β signaling activation. Cell Rep. 31: 107600.

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.