SANTA CRUZ BIOTECHNOLOGY, INC.

CD15 (B40.8): sc-517384

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

CD15 (also known as embryonic stage-specific antigen, SSEA-1, Lewis X or LeX) is found in embryonal carcinoma cells of mouse and human origin and in some preimplantation stage mouse embryos. This stage-specific antigen is first detected on blastomeres of 8-cell stage embryos. Trophectodermal cells are transitorily positive; however, each cell in the inner cell mass eventually expresses CD15. CD15 has been implicated as having a role in mediating compaction of the mouse embryo at the morula stage. Additionally, CD15 functions as an adhesion molecule capable of calcium-mediated homotypic binding. Cells with high surface expression of CD15 therefore exhibit strong self-aggregation (based on CD15-CD15 interaction) in the presence of calcium.

REFERENCES

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3. Nimgaonkar, M., Kemp, A., Lancia, J. and Ball, E.D. 1996. A combination of CD34 selection and complement-mediated immunopurging (anti-CD15 monoclonal antibody) eliminates tumor cells while sparing normal progenitor cells. J. Hematother. 5: 39-48.
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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: FUT4 (human) mapping to 11q21.

SOURCE

CD15 (B40.8) is a mouse monoclonal antibody raised against granulocytes from precursor cells to mature polymorphs.

PRODUCT

Each vial contains 200 µg IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CD15 (B40.8) is recommended for detection of CD15 of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

SELECT PRODUCT CITATIONS

1. Jin, Y., Liu, X., Liang, X., Liu, J., Liu, J., Han, Z., Lu, Q., Wang, K., Meng, B., Zhang, C.,Xu, M., Guan, J., Ma, L. and Zhou, L. 2023. Resveratrol rescues cutaneous radiation-induced DNA damage via a novel AMPK/SIRT7/HMGB1 regulatory axis. Cell Death Dis. 13: 847.

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.