



Follicular DC Marker (Ki-M9R): sc-58529

BACKGROUND

Dendritic cells (DCs) are immune cells that are an important part of the mammalian immune system. Their main function is to process antigen material and present it to other cells of the immune system. There are three types of dendritic cells: lymphoid DCs, Myeloid DCs, also referred to as Plasmacytoid DCs, and Follicular DCs. All share similar morphology that results in a large contact surface with their surroundings compared to overall cell volume. Unlike the other two DCs, Follicular DCs are most likely not of hematopoietic origin. Follicular DCs are found in the B cell regions of all secondary lymphoid tissue and can retain antigens for longer periods of time to re-stimulate both B and T cells. In human thyroids, Follicular DCs are a sign of autoimmunity and germinal centre formation. Follicular DC markers are useful in many research applications and can aid in the behavioral and functional analysis of these cells.

REFERENCES

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SOURCE

Follicular DC Marker (Ki-M9R) is a mouse monoclonal antibody raised against peritoneal macrophages of rat origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Follicular DC Marker (Ki-M9R) is recommended for detection of antigen trapping macrophages of the B-cell system such as sinus lining cells and dendritic reticulum cells of mouse and rat origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); may cross-react with splenic metallophil. Non cross-reactive with macrophages in T-cell areas and macrophages in nonlymphoid organs.

SELECT PRODUCT CITATIONS

1. Finetti, F., Capitani, N., Manganaro, N., Tatangelo, V., Libonati, F., Panattoni, G., Calaresu, I., Ballerini, L., Baldari, C.T. and Patrussi, L. 2020. Optimization of organotypic cultures of mouse spleen for staining and functional assays. *Front. Immunol.* 11: 471.

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.