

Technical Data Sheet

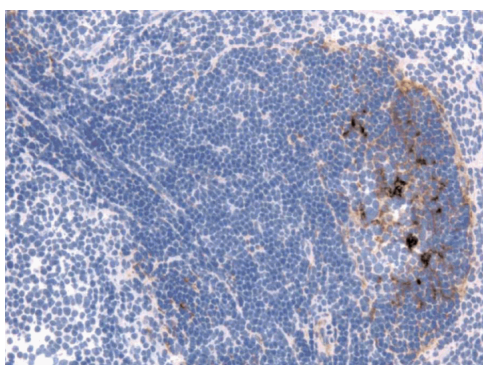
Purified Rat Anti-Mouse Follicular Dendritic Cell

Product Information

| | |
|------------------|---|
| Material Number: | 551320 |
| Size: | 1.0 ml |
| Clone: | FDC-M1 |
| Isotype: | Rat IgG2c, κ |
| Reactivity: | QC Testing: Mouse |
| Storage Buffer: | Aqueous buffered solution containing BSA, goat serum, and $\leq 0.09\%$ sodium azide. |

Description

Follicular Dendritic Cells (FDC) form a structural network within the lymphoid follicles and are involved in antigen presentation to B cells for generating an immune response and for the maintenance of immunological memory. FDCs are believed to provide signals to B cells to induce their proliferation. In LCMV mediated immunosuppression there is evidence of T-cell dependent destruction of macrophages and follicular dendritic cells. The FDC-M1 antibody recognizes follicular dendritic cells and their dendritic processes.



Immunohistochemistry of follicular dendritic cells.
Frozen sections of mouse spleen was reacted with the FDC-M1 antibody. Follicular dendritic cells can be identified by the intense brown labeling of their cell membranes. Magnification 20X.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4°C.

Application Notes

Application

| | |
|--|------------------|
| Immunohistochemistry-frozen | Routinely Tested |
| Immunohistochemistry-formalin (antigen retrieval required) | Not Recommended |

Recommended Assay Procedure:

Immunohistochemistry: The FDC-M1 clone reactive against mouse follicular dendritic cells is tested for immunohistochemical staining of acetone-fixed frozen sections. Tissues tested were mouse spleen, thymus and small intestine. The antibody stains follicular dendritic cells and their processes. For optimal indirect immunohistochemical staining, the FDC-M1 antibody should be titrated (1-10 to 1-50 dilution) and visualized via a three-step staining procedure in combination with polyclonal, biotin conjugated anti-rat Igs (multiple adsorbed) (Cat. No. 559286) as the secondary antibody and streptavidin-HRP (Cat. No. 550946) together with the DAB detection system (Cat. No. 550880). More conveniently, the anti-rat Ig HRP detection kit (Cat. No. 551013) that provides the biotinylated secondary antibody, antibody diluent and the detection system can be used to stain for anti-mouse follicular dendritic cells. A detailed protocol of the immunohistochemical procedure is enclosed. The clone FDC-M1 is not recommended for formalin-fixed paraffin embedded sections.

Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|-------------------------------|-----------|--------|
| 550946 | Streptavidin HRP | 50 ml | (none) |
| 551013 | Anti-Rat Ig HRP Detection Kit | 200 tests | (none) |

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559286
550880

Biotin Goat Anti-Rat Ig
DAB Substrate Kit

0.5 mg
500 tests

Polyclonal
(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Gray D, Kosco M, Stockinger B. Novel pathways of antigen presentation for the maintenance of memory. *Int Immunol*. 1991; 3(2):141-148. (Biology)
Kosco, Pflugfelder, and Gray. Follicular dendritic cell-dependent adhesion and proliferation of B cells in vitro.. *J Immunol*. 1992; 148:2331-2339. (Biology)
Odermatt B, Eppler M, Leist TP, Hengartner H, Zinkernagel RM. Virus-triggered acquired immunodeficiency by cytotoxic T-cell-dependent destruction of antigen-presenting cells and lymph follicle structure. *Proc Natl Acad Sci U S A*. 1991; 88(18):8252-8256. (Biology)

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