

## SM1759PS

## Monoclonal Antibody to Follicular Dendritic Cells - Purified

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| <b>Quantity:</b>                     | 50 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration:</b>                | 1.0 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Background:</b>                   | Follicular dendritic cells are cells that facilitate antigen recognition by B cells in follicles. This kind of dendritic cell is not bone marrow derived and is not a kind of blood cell. It is purely a resident of the follicles of secondary lymphoid organs. B cells form germinal centers around follicular dendritic cells in lymphoid organs. Dendritic cells form from monocytes, white blood cells which circulate in the body and, depending on the right signal, can turn into dendritic cells or macrophages. The monocytes in turn are formed from stem cells in the bone marrow.                                                                                                                                                                                                                                                                                                                |
| <b>Host / Isotype:</b>               | Mouse / IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Recommended Isotype Controls:</b> | SM20P (for use in rat samples), AM03095PU-N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clone:</b>                        | ED5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen:</b>                    | Rat spleen cells.<br>Spleen cells from immunised BALB/c mice were fused with cells of the Sp2/0-Ag14 mouse myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Format:</b>                       | <b>State:</b> Liquid purified IgG fraction.<br><b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications:</b>                 | <b>Immunohistochemistry on Frozen Sections:</b> 1/100-1/200.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity:</b>                  | ED5 staining reveals a web-like pattern in B cell follicles, representing the follicular dendritic cells. Mesangial cells in the kidney are also ED5-positive.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species Reactivity:</b>           | <b>Tested:</b> Rat. Does not react with Mouse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage:</b>                      | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>General Readings:</b>             | <ol style="list-style-type: none"> <li>Jeurissen, S.H.M &amp; Dijkstra, C.D. (1986) Characteristics and functional aspects of non lymphoid cells in rat germinal centres, recognised by two monoclonal antibodies ED5 and ED6. Eur. J. Immunol. 16: 562-568.</li> <li>Kapasi ZF, Qin D, Kerr WG, Kosco-Vilbois MH, Shultz LD, Tew JG, et al. Follicular dendritic cell (FDC) precursors in primary lymphoid tissues. J Immunol. 1998 Feb 1;160(3):1078-84. PubMed PMID: 9570519.</li> <li>Yamate J, Kuriyama T, Kawashima M, Nakanishi M, Ide M, Kuwamura M, et al. Establishment and characterization of transplantable tumor line (KB) and cell lines (KB-P and KB-D8) from a rat thymus-derived dendritic cell sarcoma. Virchows Arch. 2002 Jun;440(6):616-26. Epub 2002 Feb 13. PubMed PMID: 12070602.</li> <li>Köhler, C.N. (2009) The Actin-binding Protein Caldesmon Is in Spleen and Lymph</li> </ol> |

Nodes Predominately Expressed by Smooth Muscle Cells, Reticular Cells, and Follicular Dendritic Cells. J Histochem Cytochem. Nov 3. [Epub ahead of print] 5. Ohmori, Y. et al. (2001) Repeated Antigen Challenge Modulates Expression of Follicular Dendritic Cell (FDC) Related Molecule in Draining Lymph Nodes Acta Histochemica et Cytochemica 34: 265-73.