Biotinylated Anti-Mouse Follicular Dendritic Cells
Monoclonal Rat Antibody

Code: 212-MK-2FDCM2

Clone: FDC-M2 ***Expiry:*** 1 year from date of despatch

Isotype: Rat IgG2a

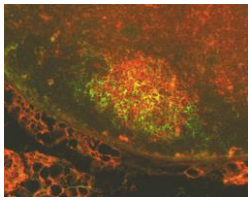
Quantity: 100 µg (0.1 ml) biotinylated antibody buffered in PBS (pH 7.4) containing 0.1% (w/v) sodium azide.

Source: Tissue culture supernatant

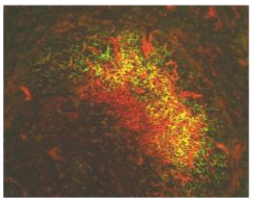
Purification: Affinity chromatography

Specificity: This antibody reacts with mouse follicular dendritic cells [1-5]. Recently, the epitope recognized by FDC-M2 has been demonstrated to be an activation form of the complement fragment, C4 [6].

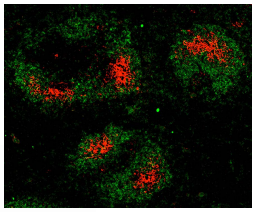
Applications:



a



b



c

This antibody is useful to elucidate the role of the Follicular Dendritic Cell (FDC) network in immune responses. It has been used extensively to study mechanisms involved in humoral immunity, such as maturation of B cells, formation of germinal centers and the biology of follicular dendritic cells (immunohistochemistry of frozen tissue sections). In addition, it has been used in the murine model of Scrapie in order to unravel the characteristics of this prion related disease.

This antibody may be used for immunohistochemistry of frozen tissue sections. It does not stain paraffin embedded tissue sections.

We recommend that each laboratory determine an optimum working titre for use in its particular application.

Figure a & b : Immunolabelling of the FDC network in cryosections of lymph node (a) and spleen (b) using FDC-M2. Mice immunized with ovalbumin in alum on day 0 and 14. Lymph nodes and spleen obtained on day 19 (i.e. day 5 post secondary immunization). The germinal centre is labelled with plant lectin, peanut agglutinin (PNA; red colour). FDC-M2 is clearly restricted to the FDC network both within the germinal centre (green plus red = yellow) as well as extending out into the primary follicle (green).

Figure c : FDC-M2 was detected on acetone fixed frozen mouse spleen section using rat anti-mouse FDC-M2 (xxx) at (1/300) for 1hr at room temperature. And then section was stained with Streptavidin Cy3 (red, from Jackson Immunoresearch) and counterstained with rat anti-mouse IgD FITC (green, from BD Bioscience).

References:

1. Kosco-Vilbois M.H. et al. " To 'B' or not to 'B' a germinal center?" Immunology Today 18:25 (1997)
2. Alimzhanov B, et al. "Abnormal development of secondary lymphoid tissues in lymphotoxin β-deficient mice" Proc. Natl Acad. Sci 94: 9302 (1997)
3. Gonzales M., et al. "The Sequential Role of Lymphotoxin and B Cells in the Development of Splenic Follicles" J. Exp. Medicine 187: 997 (1998)
4. Camach, S.A., M.H. Kosco-Vilbois and C. Berek "The dynamic structure of the germinal center" Immunology Today 19: 511 (1998)
5. Kosco-Vilbois M.H., et al. "Follicular dendritic cell-dependent adhesion and proliferation of B cells in vitro" J. Immunol. 148: 2331-2339 (1992)
6. Taylor, P.R., M.C. Pickering, M.H. Kosco-Vilbois, M.J. Walport, M Botto, S. Gordon and L Martinez-Pomares (2002) Detection of C4 activation fragments with Mab209 (FDC-M2); localization of immune complexes in mouse tissues. Eur. J.Immunol., 32: 1888-1896.

Storage: Store at +4 C. DO NOT FREEZE.

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Conditions : The information disclosed herein is not be construed as a recommendation to use the above product in violation of any patents. ImmunoKontact will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Caution : ***Sodium azide (NaN_3)*** was added as a preservative to prevent bacterial contamination. Since sodium azide yields highly toxic hydrazoic acid under acidic conditions it is important to dilute azide compounds in running water before discarding.

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