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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

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Affinity Purified Anti-Mouse Macrophages (Metallophilic)

CL89149
Lot: 14926

DESCRIPTION: Cedarlane's CL89149 is a useful marker for identification of macrophage subpopulations in various organs, especially the metallophilic macrophages adjacent to the marginal zone of the spleen. In addition, CL89149 detects macrophages at inflammatory sites and is positive with Kupffer cells. The antigen detected is a cytoplasmic and cell surface component. No reactivity of CL89149 was found with dendritic cells, peritoneal resident macrophages, peritoneal exudate cells or blood cells.

PRESENTATION: 0.5 ml (containing 0.15 M PBS pH = 7.2), lyophilized. 10 mg/ml bovine serum albumin is added as a stabilizer; 0.01% Thimerosal as a preservative. Reconstitute in 0.5 ml distilled water (= stock solution). Concentration is 100 µg/vial or 0.2 mg/ml.

SPECIFICITY: Reacts with a subpopulation of mature resident tissue macrophages.

CLONE: MOMA-1

ISOTYPE: Rat IgG_{2a}

STORAGE/STABILITY: Aliquots of stock solution can be kept frozen at -70°C. DO NOT FREEZE WORKING DILUTIONS. Stock solution stable for one year at -70°C.

WORKING DILUTION: approximately 1:100, freshly prepared

BACKGROUND/RESULTS: Distinct macrophage subpopulations of lymphoid organs express the antigen. In the spleen, they are localized at the marginal sinus forming a ring around the periarteriolar lymphocyte sheath and follicular areas at the inner side of marginal zones. In lymph nodes, they are localized in the sinusoids and medullary cords but not within follicular areas or paracortex. In Peyer's patches they are localized in the interfollicular areas at the serosal side. Kupffer cells in the liver can be clearly stained by CL89149. No CL89149 positive macrophages were found in the thymus. The antigen was also absent in other organs tested so far (kidney, brain, skin). In non-lymphoid organs, the antigen is only found on a macrophage subpopulation in the lamina propria of the villi of the small intestine. Frozen sections of the spleen is the suggested control.

REFERENCES:

1. Kraal, G., Janse, M.: Marginal metallophilic cells of the mouse spleen identified by a monoclonal antibody. *Immunology* **58**: 665-669 (1986).
2. De Jong, J.P., Leenen, P.J., Melis, M., Voerman, J.S.A., Van Ewijk, W.: Immunophenotypical Characterization of Macrophage and Dendrocyte Subpopulations in the Murine Spleen. Submitted for publication. From: *Localization and Phenotypical Characterization of Murine Macrophages*, Chapter 8. Thesis, De Jong, J.P., Erasmus University. Rotterdam (1990).

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4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com