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siehe unsere Liefer- und Versandbedingungen

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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Purified Rat anti-Mouse Monocytes/Macrophages

CL89154
Lot: 17PO0503

DESCRIPTION:
This antibody is a useful marker for the broad detection of monocytes and macrophages in all mouse strains. In combination with the anti-F4/80 marker (clone BM8, product code CL89170AP) it allows a precise characterization of tissue fixed macrophages in various organs. The antibody stains a mature macrophage subset, monocytes and a few precursors in bone marrow. Dendritic cells show low to intermediate expression. The staining shows close correlation with expression of acid phosphatase in tissue sections. MOMA-2 is predominantly expressed in the cytoplasm, but is also present on the cell surface.

SPECIFICITY: Detects mouse monocytes and macrophages. Cross reactivity with other species is unknown.

PRESENTATION: 200 µg of affinity purified IgG, lyophilized.

RECONSTITUTION:
Reconstitute by adding 0.5 ml distilled water. This stock solution contains 0.4 mg/ml IgG, phosphate buffered saline (PBS) pH 7.2, 5 mg/ml bovine serum albumin (BSA) as a stabilizer, and 0.1% sodium azide as a preservative.

CLONE: MOMA-2

ISOTYPE: Rat IgG_{2b}

IMMUNOGEN: Mouse lymph node stroma.

APPLICATIONS: Immunohistochemistry (fresh frozen only) with dry acetone fixation, 4ºC; has been reported to work in FACS (permeabilization preferable).
Suggested positive control: **mouse spleen**.

WORKING DILUTIONS:
For immunohistology, use 0.5-1 µg/ml (1:400-1:800). Start at a dilution of 1:50-1:100 for FACS. *(see note *)*

STORAGE/STABILITY:
This product is stable for 1 year at 4ºC. For longer storage, aliquots may be stored at -20ºC. Avoid freeze thaw cycles.

Continued overleaf…

For more information or to place an order please contact...

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BIOCHEMISTRY:
This clone (MOMA-2) detects a (glyco-)protein of 140 kD M.W. which is located within the cytoplasm and on the cell surface. Attempts to isolate the antigenic determinant by immunoprecipitation and immunoblotting have so far been unsuccessful.

ANTIGEN DISTRIBUTION:
Isolated cells:
In the cytospin preparation of thiogycollate stimulated peritoneal exudates cells MOMA-2 detects an antigen as distinct cytoplasmic spots. This clone detects monocytes from peripheral blood and a subpopulation of bone marrow cells.

Tissue sections:
This antibody detects typical tissue macrophages as does the anti-F4/80 specific clone BM8 (CL89170AP). However, different staining patterns are visible as shown below. The most predominant difference can be observed in T-cell areas and follicles of peripheral lymphoid organs where the anti-F4/80 (CL89170AP) is negative.

Comparison of different mature macrophage markers:

	CL89154 (MOMA-2)	CL89170AP (BM8)
Monocytes	+	+
Kupffer cells	+	+
Langerhans cells	+/-	+
Tingible body macrophages	+	-
Interdigitating cells	+/-	-
Dendritic cells	+/-	-
Microglial cells	-	
Marginal zone macrophages	-	-
Marginal metallophilic cells	-	-
Pneumocytes type II		
Alveolar lavage cells		66 %
Resident peritoneal cells (PCs)		51 %
Thioglycollate elicited PCs) Time after injection: 4 hours Time after injection: 8 hours		 81 % 28 %
Bone Marrow (BM) cells	14%	37 %
BM cells after 7 days with M-CSF	30%	96 %

Kraal et al. (1987) modified and P.J.M. Leenen personal communication.

REFERENCES:

1.) Kraal, G., Rep, M., Janse, M.: Macrophages in T and B Cell Compartments and Other Tissue Macrophages Recognized by Monoclonal Antibody MOMA-2; An Immunohistochemical Study. *Scand.J.Immunol.*: **26**, 653-661 (1987).

2.) Breel, M., Mebius, R.E., Kraal, G.: Dendritic cells of the mouse recognized by two monoclonal antibodies. *Eur. J. Immunol.*:**17**, 1555-1559 (1987).

Caution: This product contains Sodium Azide, a poisonous and hazardous substance.

** For optimal results in various applications it is recommended that investigators determine dilutions appropriate for individual use.*

Laboratory Reagent For Research Use Only

JV 09/26/07