



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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### Affinity Purified Rat anti-Mouse Pan Macrophages

**CL89170AP**  
**CL89170AP-S**  
**Lot: 01PO1009**

#### **DESCRIPTION:**

This antibody recognizes the F4/80 antigen on major subpopulations of resident tissue macrophages. The antigen expression increases upon maturation of macrophage precursors in bone marrow and blood as well as in ontogeny. CL89170AP is the only macrophage marker that is able to distinguish non-destructive from destructive inflammation processes in the pancreas, it has also been shown to be a unique histological marker of the progression from peri-insulinitis to  $\beta$ -cell destruction and diabetes in a mouse diabetes model.

#### **SPECIFICITY:**

Detects major subpopulation of resident tissue macrophage in mice, and cross reacts with human heart macrophages.

#### **PRESENTATION:**

This product is presented as 25  $\mu$ g (**CL89170AP-S**) or 100  $\mu$ g (**CL89170AP**) lyophilized from phosphate buffered saline, pH 7.2 containing 10 mg/ml 0.05% BSA as a stabilizer and sodium azide ( $\text{NaN}_3$ ) as a preservative. Reconstitute with 0.5 ml distilled water.

**CLONE:** BM8

**ISOTYPE:** Rat IgG2a

**APPLICATIONS:** Immunohistochemistry on frozen and paraffin embedded sections (acetone, glutaraldehyde, formaldehyde or paraffin fixed), and FACS.

**WORKING DILUTIONS:** We recommend a starting dilution of 1:1000 (0.4  $\mu$ g/ml), freshly prepared or frozen sections. This product requires proteinase treatment of paraffin sections.

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

*Continued Overleaf....*

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**STORAGE/STABILITY:** This product is stable for up to one year at 4°C. For longer storage, aliquots of this antibody may be stored at -20°C. Stable for one year after reconstitution at -20°C. Do not freeze working dilutions.

**Biochemistry:**

This antigen is a 125kD extracellular membrane protein sensitive to 2-mercaptoethanol.

**Antigen Distribution:**

**Isolated Cells:**

This antigen is expressed *in vitro* on over 80% of M-CSF stimulated bone marrow derived macrophages after a few days of culture. It is absent from granulocytes, lymphocytes and thrombocytes.

**Tissue Sections:**

This antigen is detected on tissue fixed macrophages in all organs tested so far (spleen, lymph nodes, thymus, liver, skin). It is also present in Langerhans cells in the skin and Kupffer cells in the liver. In granulomas induced by Complete Freund's Adjuvant the antigen is expressed by inflammatory macrophages but is absent from epitheloid cells.

**Comparison of different mature macrophage markers:**

	CL89170AP (BM8)	CL89154 (MOMA-2)
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	81%	
Time after injection: 8 hours	28%	
Bone Marrow (BM) cells	37%	14%
BM cells after 7 days with M-CSF	96%	30%

**References:**

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- Kraal, G. et al.: Macrophages in T and B Cell compartments and Other Tissue Macrophages Recognized by Monoclonal Antibody MOMA-2. *Scand. J. Immunol.* 23, 653-661 (1987).
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