

Product datasheet for **SM065B**

Macrophages / Monocytes Rat Monoclonal Antibody [Clone ID: MOMA-2]

Product data:

Product Type: Primary Antibodies

Clone Name: MOMA-2

Applications: FC, IHC

Recommended Dilution: **Flow Cytometry** (Membrane permeabilisation is recommended).
Immunohistochemistry on Frozen Sections: 0125 µg/ml (1/1600).
Recommended Positive Control: Mouse spleen.
Does not work on Formalin-Fixed, Paraffin-Embedded Tissue Sections.

Reactivity: Mouse

Host: Rat

Isotype: IgG2b

Clonality: Monoclonal

Immunogen: Mouse lymph node stroma.

Antigen, epitope: The antigen is a (glyco-)protein of 140kDa m.w. which is located within the cytoplasm and on the cell surface. The epitope has not been further characterized.

Specificity: This antibody clone *MOMA-2* is a useful marker for the broad detection of monocytes and macrophages in all mouse strains. In combination with the anti F4/80 marker BM8 it allows a precise characterisation 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.

Antigen Distribution

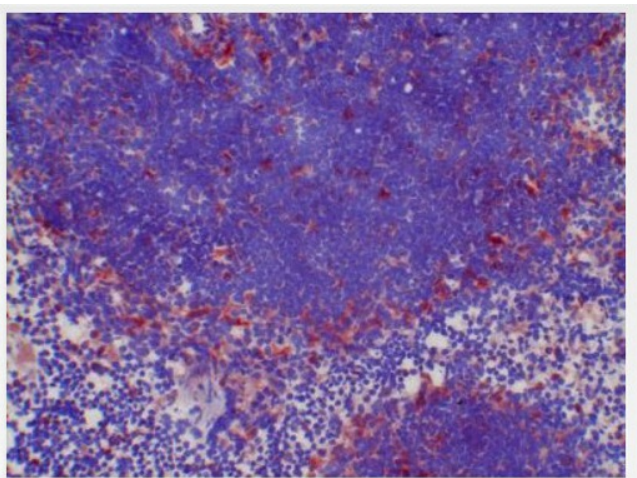
Isolated Cells: In the cytospin preparation of thioglycollate stimulated peritoneal exudate cells MOMA-2 detects an antigen as distinct cytoplasmic spots. MOMA-2 detects monocytes of the peripheral blood and a subpopulation of bone marrow cells.

Tissue Sections: MOMA-2 detects typical tissue macrophages as does the anti F4/80-specific clone BM8 (pan macrophage marker). 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 clone BM8 is negative.



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Formulation:	Stock solution contains PBS, pH 7.2 with 5 mg/ml BSA as a stabilizer and 0.05% (v/v) Kathon as a preservative Label: Biotin State: Lyophilized purified IgG fraction from cell culture supernatant
Reconstitution Method:	Restore by adding 0.5 ml distilled water (= 0.2 mg/ml Stock Solution).
Concentration:	0.2 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Biotin
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Synonyms:	Macrophage marker, Monocyte marker
Note:	This antibody was produced serum-free, without fetal calf serum.

Product images:

Mouse Spleen Frozen Section stained with Biotin conjugated Macrophages / Monocytes Antibody Cat.-NoSM065B

Product number	MOMA-2	BM8 (anti F4/80)	ER-BMDM 1
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%	26%
Resident peritoneal cells (PCs)		51%	34%
Thioglycollate elicited PCs			
time after injection: 4hours		81%	79%
time after injection: 8 hours		28%	15%
Bone Marrow (BM) cells	14%	37%	5%
BM cells after 7 days with M-CSF	30%	96%	91%

Comparison of different mature macrophage markers

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