

Monoclonal Antibody to Macrophages (Haematopoiesis associated) - FITC

Alternate names:	Macrophage marker
Catalog No.:	BM4022F
Quantity:	0.2 mg
Concentration:	0.4 mg/ml
Background:	25F9 is associated with well-differentiated tissue macrophages both in normal and diseased tissues independently of the presence or absence of inflammation. The antigen is a 86kDa membrane protein, the epitope has not been further characterized.
Host / Isotype:	Mouse / IgG1
Clone:	25F9
Immunogen:	Cultured human monocytes.
Format:	State: Liquid purified Ig fraction. Purification: Affinity chromatography. Buffer System: PBS buffer pH 7.2 with 0.09% sodium azide as preservative and 10 mg/ml BSA as stabilizer. Label: FITC
Applications:	Has been described to work in FACS. Antigen Distribution on Isolated cells and Tissue sections: Absent on freshly isolated monocytes and other blood cells; present on 40 - 50% of human monocytes after 6-7 day culture, also positive on some melanoma and carcinoma cell lines. Kupffer cells, histiocytes (skin), macrophages of the thymus, in the germinal centres of lymph nodes and spleen, in mamma carcinoma, melanoma, osteocarcinoma and gastric cancer; excema, sarcoidosis, BCG granuloma; synovial lining cells, tuberculoid leprosy: no expression in lepramatous leprosy. Other markers also used in the above studies include RM3/1, 27E10, G16/1, S36.48 and 8-5C2 in various combinations. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody is also suitable for staining macrophages from bronchial lavage fluids and similar techniques. It is very useful for macrophage phenotyping, particularly for the classification of late inflammatory stages (together with 27E10, RM 3/1, and G 16/1) in tissue sections and in smears, for the characterization of tumorous tissues and the monitoring of macrophage cell cultures. This antibody reacts with human mature macrophages and subpopulation of macrophages of rhesus monkey, pig alveolar macrophages and Kupffer cells. The antigen is an 86kD protein (unreduced conditions), probably a glycoprotein on the cell surface and within the cytoplasm of mature macrophages. It is stable to formaldehyde fixation and paraffin embedding. Enzyme

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digestion is recommended.

This antibody reacts with Human mature macrophages and monocytes.

Other: subpopulation of macrophages in Rhesus monkey; reactive with pig alveolar macrophages and Kupffer cells.

Storage:

Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer.

Do not freeze working dilutions

Avoid repeated freezing and thawing.

Shelf life: One year from despatch.

General References:

1. Zwadlo, G. et al.: A monoclonal antibody to a differentiation antigen present on human macrophages and absent from monocytes. *J. Immunol.* 134, 1487 - 1492 (1985).
2. Broecker E.B. et al.: Inflammatory cell infiltrates in human melanoma at different stages of tumor progression. *Int. Cancer* 41, 562 -567 (1988).
3. Broecker, E.B. et al.: Infiltration of primary and metastatic melanomas with macrophages of the 25 F 9-positive phenotype. *Canc. Immunol. Immunother.* 25, 81 - 86 (1987).
4. Hedil, G., et al.: Association of macrophages detected with monoclonal antibody 25 F 9 with progression and pathological classification of gastric carcinoma. *J. Cancer Res. Clin. Oncol.* 113, 567 - 572 (1987).
5. Hume, D. et al.: Preparation and characterization of human bone marrow-derived macrophages. *J. Leucocyte Biol.* 38, 541 - 552 (1985).
6. Pecovic, D et al.: Pathogenicity of HIV in lymphatic organs of patients with AIDS. *J. Pathol.* 152, 31 - 35 (1987).
7. Ringler, D.J. et al.: Immunophenotypic characterization of mononuclear phagocytes and dendritic cells in lymphoid organs of the rhesus monkey. *Clin. Immunopathol.* 49, 349 - 364 (1988).
8. Kiefer, R. et al.: Macrophage differentiation antigens in acute and chronic autoimmune polyneuropathies. *Brain* 121: 469-79 (1998)

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