



BMA BIOMEDICALS  
Rheinstrasse 28-32  
CH-4302 Augst (Switzerland)  
Phone: +41 61 811 6222  
Fax: +41 61 811 6006  
info@bma.ch  
www.bma.ch

---

## **FITC Labeled Monoclonal Antibody To Human Macrophages**

### **Marker For A Subpopulation In Late Inflammatory Stages**

Monoclonal antibody 25F9 is associated with fully differentiated tissue macrophages both in normal and diseased tissues, particularly also in the late stage of an inflammation. The antibody is 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 the anti calprotectin clone 27E10 and the anti CD163 clone 5C6FAT). It is used in tissue sections and in smears, for the characterization of tumorous tissues and the monitoring of macrophage cell cultures.

---

**Product number: T-1018**

**Clone: 25F9**

**Lot: 07PF1517**

#### **TECHNICAL AND ANALYTICAL CHARACTERISTICS:**

**Host species, isotype:** Mouse IgG1

**Quantity:** 200µg

**Format:** Affinity purified, FITC labeled, liquid

Supplied as 0.5ml solution. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.09% sodium azide as a preservative.

**Stability:** Original vial: 6 months at 4° - 8°C

**Applications:** Has been described to work in FACS.

#### **Approximate working dilution:**

Optimal dilutions should be determined by the end user.

Suggested positive control: Cultured human monocytes.

Please see [www.bma.ch](http://www.bma.ch) for protocols and general information.

**Immunogen:** Cultured human monocytes.

**Antigen, epitope:** The antigen is a 86kDa membrane protein, the epitope has not been further characterized.

**Antigen distribution:**

**Isolated cells:** Absent on freshly isolated monocytes and other blood cells; present on 40 - 50% of human monocytes after 6-7 days in culture, also positive on some melanoma and carcinoma cell lines.

**Tissue sections:** 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; eczema, sarcoidosis, BCG granuloma; synovial lining cells, tuberculoid leprosy: no expression in lepromatous leprosy.

**Specificity:**

**Human:** mature macrophages and monocytes.

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

---

**Selected references**

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).

Broecker E.B. et al.: Inflammatory cell infiltrates in human melanoma at different stages of tumor progression. *Int. Cancer* **41**, 562 -567 (1988).

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).

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).

Hume, D. et al.: Preparation and characterization of human bone marrow-derived macrophages. *J. Leucocyte Biol.* **38**, 541 - 552 (1985).

Pecovic, D et al.: Pathogenicity of HIV in lymphatic organs of patients with AIDS. *J. Pathol.* **152**, 31 - 35 (1987).

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).

Kiefer, R. et al.: Macrophage differentiation antigens in acute and chronic autoimmune polyneuropathies. *Brain* **121**: 469-79 (1998).

For *in vitro* research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.