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## **CD68 (Macrophage Marker) Ab-4 (Clone PG-M1)**

Mouse Monoclonal Antibody

Cat. #DLN-14440, -14441 or -14442 (0.1ml, 0.5ml or 1ml Supernatant)

Cat. #DLN-14439 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

**Description:** CD68 glycoprotein is expressed on macrophages and monocytes.

**Comments:** Ab-4 is important for identifying macrophages in tissue sections. It stains macrophages in a wide variety of human tissues, including Kupffer cells and macrophages in the red pulp of the spleen, in lamina propria of the gut, in lung alveoli, and in bone marrow. Ab- does not react with APCs, follicular dendritic cells, interdigitating cells, myeloid precursors and peripheral blood granulocytes. It also reacts with plasmacytoid T cells which are supposed to be of monocyte/macrophage origin. It shows strong granular cytoplasmic staining of chronic and acute myeloid leukemia and also reacts with rare cases of true histiocytic neoplasia. Tumors of lymphoid origin are usually not stained.

**Mol. Wt. of Antigen:** 110kDa

**Epitope:** Not determined

**Species Reactivity:** Human. Others not tested.

**Clone Designation:** PG-M1

**Ig Isotype / Light Chain:** IgG<sub>3</sub> / κ

**Immunogen:** Gaucher cells

### **Applications and Suggested Dilutions:**

- Immunohistology (formalin/paraffin)  
(Ab 1:50-1:100 for 30 min at RT)
- \* [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Tonsil

**Cellular Localization:** Cytoplasmic

### **Supplied As:**

Tissue culture supernatant with 0.09% sodium azide,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

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**dianova GmbH**

Warburgstr. 45 • 20354 Hamburg

Telefon (040)45067-0 • Telefax (040) 45067-490 • [www.dianova.de](http://www.dianova.de)



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### ***Storage and Stability:***

Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

### ***Key References:***

1. Fallini B, et al. (1993) Am J Pathol, 142:1359.
2. Horny H P, et al. (1992) Hum Pathol, 24:355.

### ***Limitations and Warranty:***

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

### ***Material Safety Data:***

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

***For Research Use Only***

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