



CD68 (Macrophage Marker) Ab-3 (Clone KP1)

Mouse Monoclonal Antibody

Cat # DLN-38443, DLN-78183, or DLN-78184 (0.1ml, 0.5ml, or 1.0ml at 200ug/ml)

Cat. #DLN-09269, -09270, or -09268 (0.1ml, 0.5ml, or 1.0ml Supernatant)

Cat. #DLN-09267 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Description: CD68 is expressed on macrophages and monocytes.

Comments: Ab-3 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-3 reacts with 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, Monkey, Cat, and Rat. Does not react with pig, dog, and chicken.

Clone Designation: KP1

Ig Isotype / Light Chain: IgG₁ / κ

Immunogen: Subcellular fraction of human alveolar macrophages

Applications and Suggested Dilutions:

- Immunohistology (formalin/paraffin)
(Ab 1:40-1:60 for 30 min at RT)
- * [For staining of formalin-fixed tissues, digest sections with Protease XXV at 1mg/ml PBS for 5 minutes at 37°C]

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

Positive Control: Tonsil, lymph node, or spleen

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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Storage and Stability:

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

Key References:

1. De Groot CJ; et al. Journal of Neuropathology and Experimental Neurology, 1997 Jan, 56(1):10-20.
2. Noorman F; et al. Journal of Leukocyte Biology, 1997 Jan, 61(1):63-72.

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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Additional Key References:

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