

CD15 Ab-3 (Clone MMA; Same as LeuM1)

Mouse Monoclonal Antibody

Cat. #MS-1259-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-1259-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Cat. #MS-1259-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Cat. #MS-1259-RQ (12.0ml) (Ready-to-Use for Automated Immunohistochemical Staining)

Cat. #MS-1259-PCS (5 Slides) (Positive Control for Histology)

Please note this data sheet has been changed effective January 19, 2012

Description: 3-fucosyl-N-acetyllactosamine (3-FAL) or CD15 or X-hapten plays a role in mediating phagocytosis, bactericidal activity, and chemotaxis. It is present on >95% of granulocytes including neutrophils and eosinophils and to a lesser degree on monocytes. CD15 is also expressed in Reed-Sternberg cells and some epithelial cells. CD15 antibody is very useful in the identification of Hodgkin's disease. CD15 is occasionally expressed in large cell lymphomas of both B and T phenotypes which otherwise have a quite distinct histological appearance.

Comments: Ab-3 is highly recommended for staining of formalin-fixed paraffin-embedded tissues

Mol. Wt. of Antigen: 220kDa

Epitope: Not determined

Species Reactivity: Human. Others-not tested.

Clone Designation: MMA; same as LeuM1

Ig Isotype / Light Chain: IgM / κ

Immunogen: U937 histiocytic cell line

Applications and Suggested Dilutions:

- Flow Cytometry
- Immunohistology (Formalin/paraffin)

Use Ab at 1:50-1:100 for 20minute at RT, using the LP system, for 30 minutes at RT, using the UltraVision or UltraVision ONE detection systems

Use Ab at 1:50 for 20minute at RT using UltraVision Quanto systems

* [Staining of formalin/paraffin tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (**NEOMARKERS'** Cat. #AP-9003) for 10-20 min followed by cooling at RT for 20 min. followed by digestion of tissue sections with pepsin (1mg/ ml) for only 10 min at RT (Cat. #AP-9007)].

- **Staining tips:** If the staining is too light, use lower dilution or longer time.
If the staining is too strong, use higher dilution or shorter time.

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

Positive Control: Reed-Sternberg's cells in Hodgkin's lymphoma

Cellular Localization: Cell membrane and granular paranuclear

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As: 200µg/ml antibody purified from the ascites fluid by ammonium sulfate precipitation and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml, or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Key References:

1. Hanjan SNS, et al. Clin Immuno Immunopath. 1982; 23: 172.
2. Skubitz K, et al In: Knapp W, Dorken B, Gilks WR, et al, eds. Leucocyte Typing IV: White Cell Differentiation Antigens. New York: Oxford University Press; 1989; 800-805.
3. Hsu SM, et al. Amer J Clin Path. 1984; 82:29.
4. Pinkus GS, et al. Am J Pathol. 1985; 119:244.

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. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

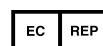
Material Safety Data:

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.

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