CD15 [MMA]
Concentrated and Prediluted Monoclonal Antibody
901-029-062917

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>Description:</th>
<th>Dilution:</th>
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<tbody>
<tr>
<td>CM 029 A, C</td>
<td>0.1, 1.0 ml, concentrated</td>
<td>1:100</td>
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<tr>
<td>PM 029 AA</td>
<td>6.0 ml, prediluted</td>
<td>N/A</td>
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</tbody>
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**Intended Use:**
For In Vitro Diagnostic Use
CD15 [MMA] is a mouse monoclonal antibody that is intended for laboratory use in the qualitative identification of CD15 protein on the cell surface of granulocytes and monocytes by immunohistochemistry (IHC) in formalin-fixed paraffin-embedded (FFPE) human tissues. The clinical interpretation of any staining or its absence should be complemented by morphological studies using proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

**Summary and Explanation:**
CD15 is present on greater than 90% of granulocytes including neutrophils and eosinophils, and to a lesser degree, on monocytes. CD15 is expressed in Reed-Sternberg cells of Hodgkin's disease (of the nodular sclerosis, mixed cellularity and lymphocyte-depleted subtypes), and certain types of epithelial cells. It is generally agreed that the Reed-Sternberg cell variants in lymphocyte-predominant Hodgkin's disease are not reactive with CD15. Positive staining for CD15 combined with a negative reaction for lymphocytic markers may provide support for Hodgkin's disease.

**Principle of Procedure:**
Antigen detection in tissues and cells is a multi-step immunohistochemical process. The initial step binds the primary antibody to its specific epitope. After labeling the antigen with a primary antibody, a secondary antibody is added to bind to the primary antibody. An enzyme label is then added to bind to the secondary antibody; this detection of the bound antibody is evidenced by a colorimetric reaction.

**Source:** Mouse monoclonal
**Species Reactivity:** Human; others not tested
**Clone:** MMA
**Isotype:** IgM/kappa
**Total Protein Concentration:** ~10 mg/ml. Call for lot specific Ig concentration.

**Epitope/Antigen:** CD15
**Cellular Localization:** Surface membrane and paranuclear staining
**Known Applications:** Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Protocol Recommendations:**
For In Vitro Diagnostic Use
- **Peroxidase Block:** Incubate for 10 minutes at RT with Biocare's Peroxidized 1.
- **Pretreatment:** Perform heat retrieval using Biocare's Reveal Decloaker. Refer to the Reveal Decloaker product data sheet for specific instructions.
- **Background Punisher:** Incubate for 10-20 minutes at RT with a tertiary polymer.
- **Probe:** Incubate for 10 minutes at RT with a secondary probe.
- **Polymer:** Incubate for 10-20 minutes at RT with a tertiary polymer.
- **Chromogen:** Apply Tacha's Bluing Solution for 1 minute. Rinse with deionized water.

**Quality Control:**

**Precautions:**
1. This antibody contains less than 0.1% sodium azide. Concentrations less than 0.1% are not reportable hazardous materials according to U.S. 29 CFR 1910.1200, OSHA Hazard communication and EC Directive 91/155/EC. Sodium azide (NaN₃) used as a preservative is toxic if ingested. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. (Center for Disease Control, 1976, National Institute of Occupational Safety and Health, 1976) (7)
2. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water. (8)
3. Microbial contamination of reagents may result in an increase in nonspecific staining.
4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
5. Do not use reagent after the expiration date printed on the vial.
6. The SDS is available upon request and is located at http://biocare.net/support.

Troubleshooting:
Follow the antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare’s Technical Support at 1-800-542-2002.

References: