**IOTest CD180 (RP105)-PE**

**PN B68148 – 1 mL – Liquid – Clone MHR73-11**

**Analyze Specific Reagent.**
Analytical and performance characteristics are not established

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<tr>
<th>Specifications</th>
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<td>Clone</td>
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<td>Hybridoma</td>
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<td>Immunogen</td>
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<td>Isotype</td>
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<td>Species</td>
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<tr>
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<tr>
<td>Purification</td>
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<td>Molar ratio</td>
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<td>Buffer</td>
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**SPECIFICITY**

CD180 (RP105) is a type 1 membrane protein consisting of extracellular leucine-rich repeats (LRR) and a short cytoplasmic tail. It regulates B cell recognition of lipopolysaccharide (1). The extracellular LRR is associated with a molecule called MD-1 and forms the cell surface receptor complex RP105/MD-1 (2, 3). It belongs to the family of pathogen receptors, Toll-like receptors (TLR). RP105/MD-1, working in concert with TLR4, controls B cell recognition and signaling of lipopolysaccharide (LPS), a membrane constituent of Gram-negative bacteria (4). The extracellular domain of CD180 contains 22 LRR, tandem repeats of leucine-rich motif (LMR). This LMR is a 24-28 amino acid sequence in which leucines are characteristically positioned (5).

The ligation of CD180 on B cells by a monoclonal antibody induces activation that leads to upregulation of costimulatory molecules, CD80 and CD86, and an increased cell size. CD180 is expressed on mantle zone B cells and marginal zone B cells, but weakly or negative on germinal center B cells. CD180 is also expressed on peripheral blood monocytes and dendritic cells. The monoclonal antibody MHR73-11 was generated against human RP105 complexed with mouse MD-1 and recognizes the CD180 protein (6).

**REAGENT CONTENTS**


**PRECAUTIONS**

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.

3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.

4. Do not use antibody beyond the expiration date on the label.

5. Do not expose reagents to strong light conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

6. Do not use reagent to strong light during storage or incubation.

7. Avoid microbial contamination of reagents or incorrect results might occur.

8. Use good laboratory practices when handling this reagent.

9. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

**STORAGE AND HANDLING CONDITIONS AND STABILITY**

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

**SELECTED RESEARCH REFERENCES**


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