**SPECIFICITY**

The CD274 antigen is known as Programmed Cell Death 1 ligand 1 (PD-L1) or PDL1. It is encoded by a gene located on the human chromosome 9p24 (1).

**Stability**

PD-L1 monoclonal antibody recognizes dendritic cells, T cells and follicular dendritic cells. It has been assigned to the CD274 cluster of differentiation during the 8th HLDA Workshop on Human Leukocyte Differentiation Antigens, held in Adelaide, Australia, in 2004 (12, 13).

**REAGENT CONTENTS**

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 0.1 mg/mL bovine serum albumin.

**APPLICATION**

Flow cytometry.

**STATEMENTS OF WARNING**

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 during storage or incubation.

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

7. Use good laboratory practices when handling this reagent.

**STORAGE CONDITIONS AND STABILITY**

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

**IOTest® CD274 (PD-L1)-PC7**

**REAGENT PREPARATION**

This reagent is designed for Flow Cytometry. Assay volume: 10 µL per 5 x 10⁶ cells in one test, or per 100 µL whole blood.

"Fix-and-Lyse" mixture: Preparation of working solution (quantity for 1 tube):

Freshly mix 1 mL of Versalyse™ (see catalog for PN) with 25 µL of undiluted IOTest Fixative (see catalog for PN). Prepare a sufficient amount of the "fix-and-Lyse" mixture for the total number of samples. A detailed procedure may be found in the Versalyse package insert. For Research Use Only. Not for use in diagnostic procedures.

**PRECAUTIONS**

Due to the tandem structure of the fluorochrome, PC7 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC7. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC7-conjugate.

**PROCEDURE**

This reagent is designed for Flow Cytometry. Assay volume: 10 µL per 5 x 10⁶ cells in one test, or per 100 µL whole blood.

"Fix-and-Lyse" mixture: Preparation of working solution (quantity for 1 tube):

Freshly mix 1 mL of Versalyse™ (see catalog for PN) with 25 µL of undiluted IOTest Fixative (see catalog for PN). Prepare a sufficient amount of the "fix-and-Lyse" mixture for the total number of samples. A detailed procedure may be found in the Versalyse package insert.

**SELECTED RESEARCH REFERENCES**


