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30-2919: Anti-Hu CD245 PE Mab (DY12)

Clonality: Monoclonal
Clone Name: DY12
Application: FACS
Reactivity: Human

Alternative Name: p220/240, DY12, DY35 Isotype: Mouse IgG1 kappa

Immunogen Information: human NK-type YT2C2 cells

PΕ

Description

Conjugate:

Specificity: The mouse monoclonal antibody DY12 recognizes an extracellular epitope of CD245, a transmembrane protein expressed mainly by peripheral blood lymphocytes, NK cells, monocytes, granulocytes and platelets.

CD245 is a 220-250 kDa transmembrane protein of unknown structure. It is expressed at lower level on resting blood lymphocytes, granulocytes, platelets, and thymocytes, and at high level on monocytes and on IL-2-dependent T cell lines. It is also expressed on Ewing sarcoma and osteosarcoma cell lines. CD245 seems to act as a costimulation molecule of T and NK cells.

Product Info

Amount: 100 tests

Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.

Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Content: Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Storage condition : Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 μ l reagent / 100 μ l of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

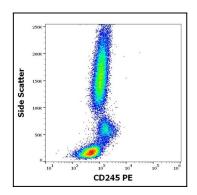


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD245 (DY12) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).



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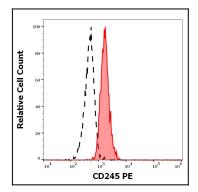


Figure 2: Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD245 (DY12) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).