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# 30-2927PE: PE Anti-CD207 Monoclonal Antibody (Clone:2G3)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | 2G3 |
| **Application :** | FACS |
| **Reactivity :** | Human,Non-Human Primates |
| **Conjugate :** | PE |
| **Gene :** | CD207 |
| **Gene ID :** | 50489 |
| **Uniprot ID :** | Q9UJ71 |
| **Isotype :** | Mouse IgG1 lambda |
| **Immunogen Information :** | Fusion protein of human CD207 extracellular part and IgG Fc fragment |

## Description

CD207 is a 40 kDa type II transmembrane glycoprotein of the C-type lectin family. It binds to mannose-bearing glycoproteins and glycolipids of microbial and viral antigens, including HIV gp120. CD207 is expressed only in Langerhans cells, which are immature dendritic cells of the epidermis and mucosa, and its expression decreases during Langerhans cells maturation. Upon antigen binding CD207 localizes to the Birbeck granules, organelles present in the cytoplasm of Langerhans cells and consisting of superimposed membranes, which leads to a nonclassical antigen-processing pathway.

## Product Info

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| **Amount :** | 100 tests |
| **Purification :** | Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |
| **Content :** | Formulation: 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 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Extracellular and intracellular staining.

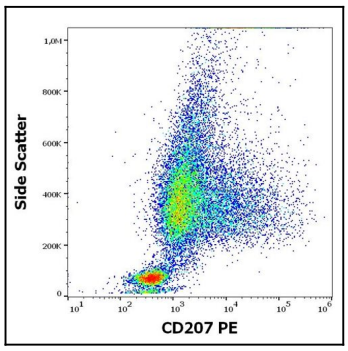


Figure 1: Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) PE antibody (10 µl reagent per milion cells in 100 µl of cell suspension).

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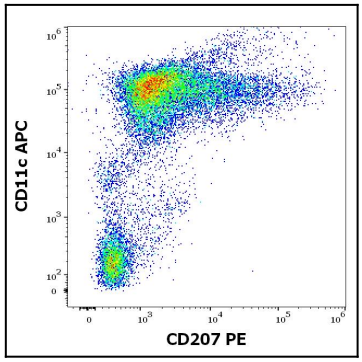


Figure 2: Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) PE antibody (10 µl reagent per milion cells in 100 µl of cell suspension) and anti-human CD11c (BU15) APC antibody (10 µl reagent per milion cells in 100 µl of cell suspension).

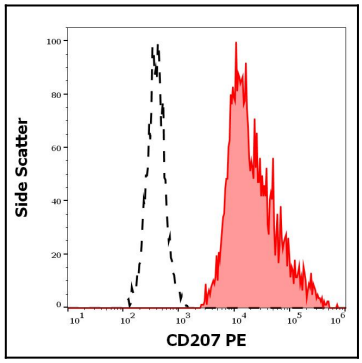


Figure 3: Separation of human CD207 positive CD11c positive dendritic cells differentiated upon monocyte stimulation (GM-CSF + IL-4) (red-filled) from non-stimulated lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) PE antibody (10 µl reagent per milion cells in 100 µl of cell suspension).