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30-2927AF647: Anti-Hu CD207 (Clone 2G3) Alexa Fluor 647

Clonality :	Monoclonal
Clone Name :	2G3
Application :	FACS
Reactivity :	Human,Non-Human Primates
Gene :	CD207
Gene ID :	50489
Uniprot ID :	Q9UJ71
Alternative Name :	CLEC4K, langerin
Isotype :	Mouse IgG1 lambda
Immunogen Information :	Fusion protein of human CD207 extracellular part and IgG Fc fragment

Description

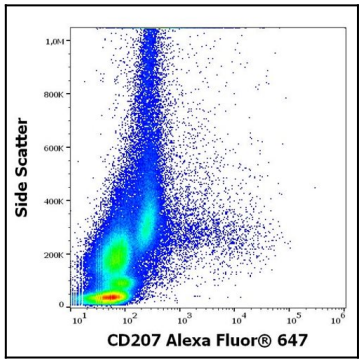
CD207 is a 40 kDa type II transmembrane glycoprotein of the C-type lectin family. It binds to mannose-bearing glycoproteins and glycolipids of microbial and viral antigens, including HIV gp120. CD207 is expressed only in Langerhans cells, which are immature dendritic cells of the epidermis and mucosa, 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

Amount :	100 Tests
Purification :	Purified by protein-A affinity chromatography.
Content :	Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.



Flow cytometry surface staining pattern of stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) Alexa Fluor 647 antibody (4 µl reagent per million cells in 100 µl of cell suspension, red-filled).

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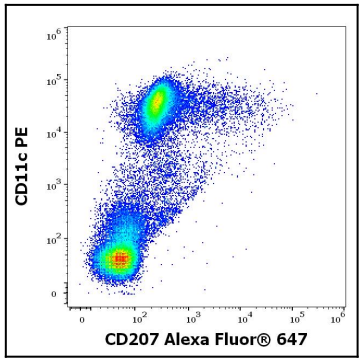

Figure 2: Flow cytometry multicolor surface staining of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) Alexa Fluor 647 antibody (4 µl reagent per million cells in 100 µl of cell suspension) and anti-human CD11c (BU15) PE antibody (20 µl reagent per milion cells in 100 µl of cell suspension).

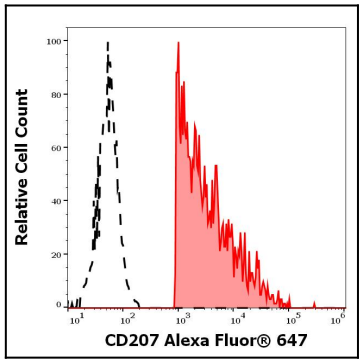

Figure 3: Separation of human CD11c positive CD207 positive differentiated dendritic cells (red-filled) from CD11c negative CD207 negative cell (black-dashed) in flow cytometry analysis (surface staining) of stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) Alexa Fluor 647 antibody (4 µl reagent per million cells in 100 µl of cell suspension, red-filled).