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

Clonality :	Monoclonal
Clone Name :	2G3
Application :	ICC,ELISA,IHC,FACS
Reactivity :	Human,Non-Human Primates
Gene :	CD207
Gene ID :	50489
Uniprot ID :	Q9UJ71
Format :	Purified
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 :	0.1 mg
Purification :	Purified by protein-A affinity chromatography.
Content :	Formulation: Stabilizing 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: Recommended dilution: 0.5-4 µg/ml. Extracellular and intracellular staining.

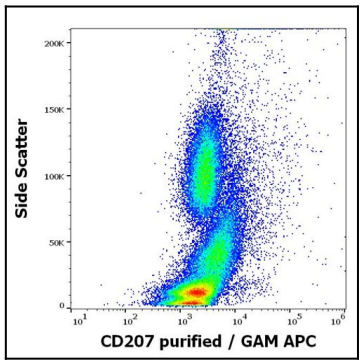

Figure 1: Flow cytometry intracellular staining pattern of human stimulated (GM-CSF + IL-4 + TGF-beta) peripheral blood mononuclear cells whole blood stained using anti-human CD207 (2G3) purified antibody (concentration in sample 0.56 µg/ml, GAM APC).

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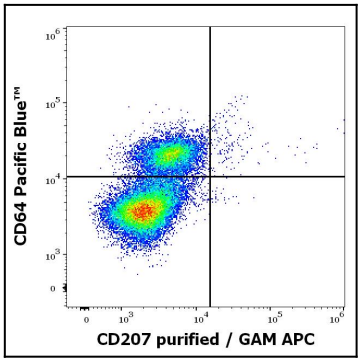

Figure 2: Flow cytometry multicolor intracellular staining pattern of human stimulated (GM-CSF + IL-4 + TGF-beta) monocytes using anti-human CD207 (2G3) purified antibody (concentration in sample 0.56 µg/ml, GAM APC) and anti-human CD64 (10.1) Pacific Blue™ antibody (4 µl reagent per milion cells in 100 µl of cell suspension).

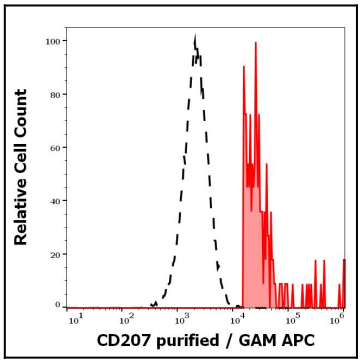

Figure 3: Separation of human CD64 positive CD207 positive cells (red-filled) from CD64 negative CD207 negative cells (black-dashed) in flow cytometry analysis (intracellular staining) of human stimulated (GM-CSF + IL-4 + TGF-beta) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) purified antibody (concentration in sample 0.56 µg/ml, GAM APC).