abcam

ab328535

Alexa Fluor® 488 Anti-CD207 antibody [2G3]

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	Alexa Fluor® 488
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Fusion protein of human CD207 extracellular part and IgG Fc fragment. Database link Q9UJ71
Clone number	2G3
Purification technique	Size-exclusion chromatography
Specificity	The mouse monoclonal antibody 2G3 recognizes an extracellular/luminal epitope of CD207, a transmembrane protein selectively expressed by Langerhans cells and by some other dendritic cell subsets. This antibody clone can target vaccine-peptides to dendritic cells.
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Target data

See full target information CD207

Function	Calcium-dependent lectin displaying mannose-binding specificity. Induces the formation of Birbeck granules (BGs); is a potent regulator of membrane superimposition and zippering. Binds to sulfated as well as mannosylated glycans, keratan sulfate (KS) and beta-glucans. Facilitates uptake of antigens and is involved in the routing and/or processing of antigen for presentation to T cells. Major receptor on primary Langerhans cells for Candida species, Saccharomyces species, and Malassezia furfur. Protects against human immunodeficiency virus-1 (HIV-1) infection. Binds to high-mannose structures present on the envelope glycoprotein which is followed by subsequent targeting of the virus to the Birbeck granules leading to its rapid degradation.

Storage

Shipped at conditions	Ambient - Can Ship with Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

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Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

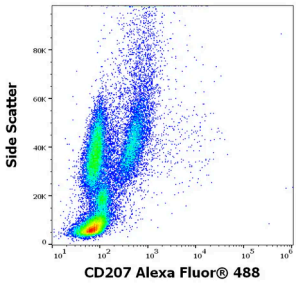
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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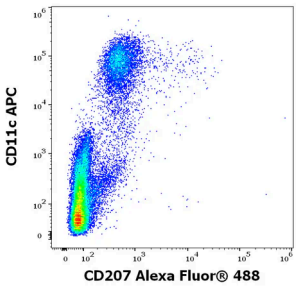
3 product images



Flow Cytometry - Alexa Fluor® 488 Anti-CD207 antibody [2G3] (ab328535)

CD207 Flow Cytometry staining of human non-stimulated blood using mouse Anti-CD207 antibody

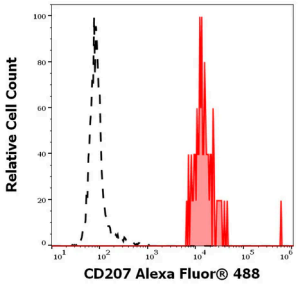
Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) monocytes spiked with human non-stimulated blood stained using anti-human CD207 (2G3) Alexa Fluor® 488 antibody (4 µl reagent per milion cells in 100 µl of cell suspension)



Flow Cytometry - Alexa Fluor® 488 Anti-CD207 antibody [2G3] (ab328535)

CD207 Flow Cytometry staining of human non-stimulated blood using mouse Anti-CD207 antibody

Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) monocytes spiked with human non-stimulated blood stained using anti-human CD11c (BU15) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD207 (2G3) Alexa Fluor® 488 antibody (4 µl reagent per milion cells in 100 µl of cell suspension).



Flow Cytometry - Alexa Fluor® 488 Anti-CD207 antibody [2G3] (ab328535)

CD207 Flow Cytometry staining of human non-stimulated blood using mouse Anti-CD207 antibody

Separation of human CD207 positive CD11c positive cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) monocytes spiked with human non-stimulated blood stained using anti-human CD207 (2G3) Alexa Fluor® 488 antibody 4 µl reagent per milion cells in 100 µl of cell suspension).

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