abcam

ab326505

PE Anti-CD1A antibody [HI149]

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.4 Preservative: 0.098% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Clone number	HI149
Purification technique	Size-exclusion chromatography
Specificity	The antibody HI149 reacts with an extracellular epitope of CD1a (T6), a 49 kDa polypeptide associated with beta2-microglobulin expressed on cortical thymocytes (strongly), Langerhans cells, dendritic cells and some T cell leukemias and lymphomas. The antibody does not react with peripheral blood T and B lymphocytes, monocytes, granulocytes, platelets and erythrocytes.
Purification notes	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

Target data

See full target information CD1A

Function	Antigen-presenting protein that binds self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on natural killer T-cells.

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, Store in the dark

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

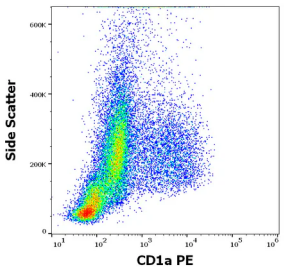
We do not recommend this combination. It is not covered by our product promise.

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.

Full details and terms and conditions can be found here:
Terms & Conditions.

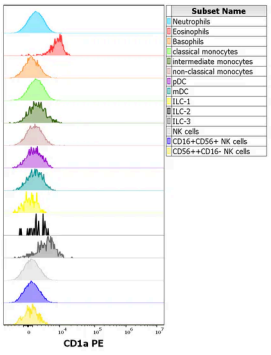
7 product images



Flow Cytometry - PE Anti-CD1A antibody [HI149] (ab326505)

CD1A Flow Cytometry staining of human stimulated (GM-CSF + IL-4) peripheral blood monocytes using mouse Anti-CD1A antibody

Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood monocytes stained using ab326505 (20 µl reagent per million cells in 100 µl of cell suspension).

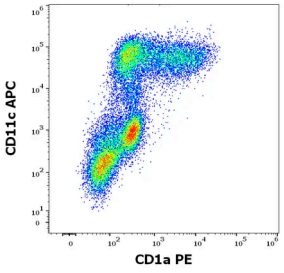


Flow Cytometry - PE Anti-CD1A antibody [HI149] (ab326505)

CD1A Flow Cytometry staining of Suspension of blood leukocytes isolated from buffy coats using mouse Anti-CD1A antibody

Expression profiling on peripheral blood subsets using ab326505. Innate panel

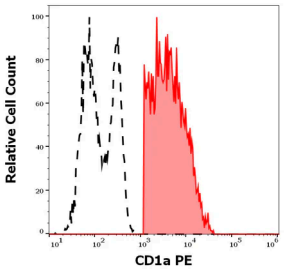
HCDM CDMaps standardized procedures (Kuzilkova D et al. Front Immunol. 2022;13:827898) were used for cell isolation and surface staining of blood leukocytes, with the modification of staining protocol using cytometry test tubes.
Suspension of blood leukocytes isolated from buffy coats (2 x 10^6 cells) was added to the mixture of ab326505 (1.6 µg/ml in stained blood sample) and Monocyte Blocking Buffer, vortexed and incubated for 20 min. Next, optimized backbone antibody panel (HLDA Innate) was added to test tubes, vortexed and incubated for 20 min. The residual erythrocytes were lysed with 2 ml of 10Ч diluted EXCELLYSE Easy solution and incubated for 10 min. Finally, samples were centrifuged (670 g, 5 min.), supernatant removed and the cell pellet was resuspended in 200 µl of PBS for acquisition.



Flow Cytometry - PE Anti-CD1A antibody [HI149] (ab326505)

CD1A Flow Cytometry staining of human stimulated (GM-CSF + IL-4) peripheral blood monocytes using mouse Anti-CD1A antibody

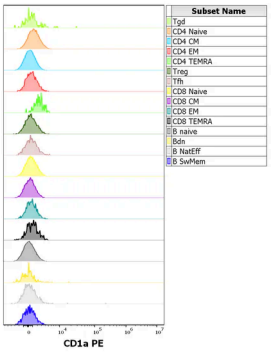
Flow cytometry multicolor surface staining of human stimulated (GM-CSF + IL-4) peripheral blood monocytes stained using ab326505 (20 µl reagent per million cells in 100 µl of cell suspension) and anti-human CD11c (BU15) APC antibody (10 µl reagent per million cells in 100 µl of cell suspension).



Flow Cytometry - PE Anti-CD1A antibody [HI149] (ab326505)

CD1A Flow Cytometry staining of human stimulated (GM-CSF + IL-4) peripheral blood monocytes using mouse Anti-CD1A antibody

Separation of human CD1a positive CD11c positive dendritic cells differentiated upon monocyte stimulation (GM-CSF + IL-4) (red-filled) from CD11c negative CD1a negative events (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood monocytes stained using ab326505 (20 µl reagent per million cells in 100 µl of cell suspension).

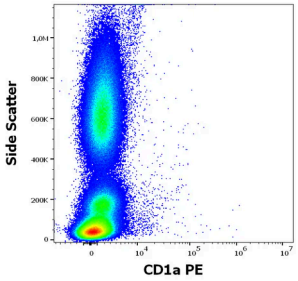


Flow Cytometry - PE Anti-CD1A antibody [HI149] (ab326505)

CD1A Flow Cytometry staining of Suspension of blood leukocytes isolated from buffy coats using mouse Anti-CD1A antibody

Expression profiling on peripheral blood subsets using ab326505. Adaptive panel

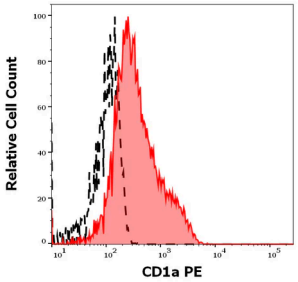
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Flow Cytometry - PE Anti-CD1A antibody [HI149] (ab326505)

CD1A Flow Cytometry staining of blood leukocytes isolated from buffy coats using mouse Anti-CD1A antibody

Analysis of the antibody staining profile was performed on blood leukocytes isolated from buffy coats. HCDM CDMaps standardized procedures (Kuzilkova D et al. Front Immunol. 2022;13:827898) were used for cell isolation and surface staining of blood leukocytes, with the modification of staining protocol using cytometry test tubes.
ab326505 was used in concentration 1.6 µg/ml in stained blood sample (2 x 10^6 cells).



Flow Cytometry - PE Anti-CD1A antibody [HI149] (ab326505)

CD1A Flow Cytometry staining of MOLT-4 cells using mouse Anti-CD1A antibody

Separation of MOLT-4 cells stained using ab326505 (concentration in sample 4 µg/m, red-filled) from MOLT-4 cells stained using mouse IgG1 isotype control (MOPC-21) PE antibody (concentration in sample 4 µg/ml, same as CD1a PE concentration, black-dashed) in flow cytometry analysis (surface staining).

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