abcam

ab326520

PE Anti-IL3RA/CD123 antibody [6H6]

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	6H6
Purification technique	Size-exclusion chromatography
Specificity	The mouse monoclonal antibody 6H6 recognizes an extracellular epitope of CD123 (interleukin 3 receptor alpha), a 60-70 kDa transmembrane protein expressed by myeloid precursors, megakaryocytes, macrophages, dendritic cells, mast cells, basophils, and some B cells. This antibody does not inhibit IL-3 binding to its receptor.
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 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Target data

See full target information IL3RA

Function	Cell surface receptor for IL3 expressed on hematopoietic progenitor cells, monocytes and B-lymphocytes that controls the production and differentiation of hematopoietic progenitor cells into lineage-restricted cells (PubMed:10527461). Ligand stimulation rapidly induces hetrodimerization with IL3RB, phosphorylation and enzyme activity of effector proteins such as JAK2 and PI3K that play a role in signaling cell proliferation and differentiation. Activation of JAK2 leads to STAT5-mediated transcriptional program (By similarity).

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

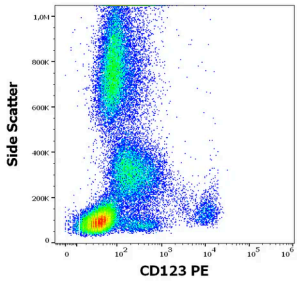
We do not recommend this combination. It is not covered by our product promise.

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.

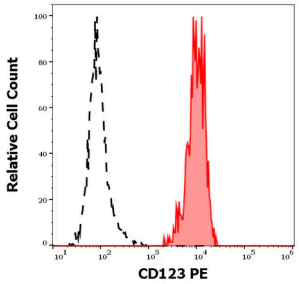
3 product images



Flow Cytometry - PE Anti-IL3RA/CD123 antibody [6H6] (ab326520)

IL3RA/CD123 Flow Cytometry staining of human peripheral whole blood using mouse Anti-IL3RA/CD123 antibody

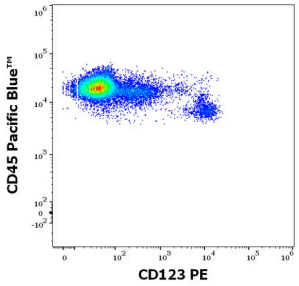
Flow cytometry surface staining pattern of human peripheral whole blood stained using ab326520 (10 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - PE Anti-IL3RA/CD123 antibody [6H6] (ab326520)

IL3RA/CD123 Flow Cytometry staining of human peripheral whole blood using mouse Anti-IL3RA/CD123 antibody

Separation of human CD123 positive Basophil granulocytes(red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab326520 (10 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - PE Anti-IL3RA/CD123 antibody [6H6] (ab326520)

IL3RA/CD123 Flow Cytometry staining of human lymphocytes using mouse Anti-IL3RA/CD123 antibody

Flow cytometry multicolor surface staining of human lymphocytes stained using ab326520 (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD45 (MEM-28) Pacific Blue™ antibody (10 µl reagent / 100 µl of peripheral whole blood).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.