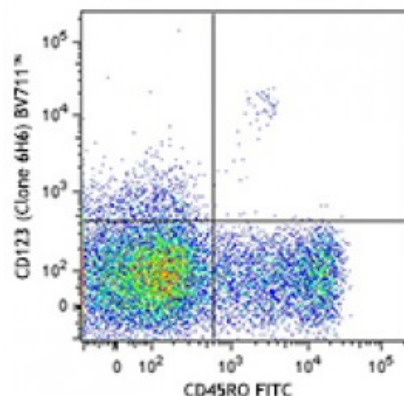


Brilliant Violet 711™ anti-human CD123

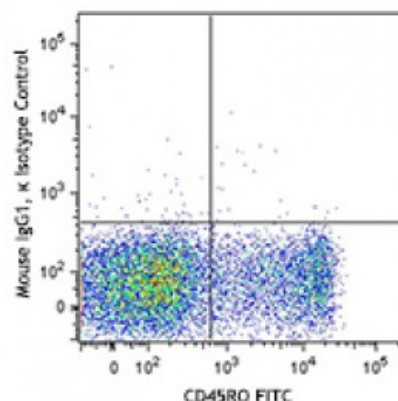
Catalog # / Size:	2130145 / 25 tests 2130150 / 100 tests
Clone:	6H6
Isotype:	Mouse IgG1, κ
Immunogen:	Human IL-3Rα transfected COS cells.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD45RO FITC and CD123 (clone 6H6) Brilliant Violet 711™ (top) or mouse IgG1, κ Brilliant Violet 711™ isotype control (bottom).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

Application Notes:	Clone 6H6 does not inhibit IL-3 binding to low- or high-affinity IL-3Rs. Additional reported applications (for the relevant formats) include: Western blotting ¹ , immunoprecipitation ¹ , and immunohistochemical staining of acetone-fixed frozen sections ² and also
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paraformaldehyde fixed paraffin
embedded tissue⁷.

- Application** 1. Sun Q, *et al.* 1996. *Blood* 87:83. (IP, WB)
- References:** 2. Herling M, *et al.* 2003. *Blood* 101:5007. (IHC)
3. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) [PubMed](#)
4. Martin-Gayo E, *et al.* 2010. *Blood* 115:5366. [PubMed](#)
5. Chen SC, *et al.* 2010. *Arch Dermatol Res.* 302:113. [PubMed](#)
6. Liu Y, *et al.* 2012. *Food Chem Toxicol.* 50:1920. [PubMed](#)
7. Peduzzi E, *et al.* 2007. *J. Invest. Dermatol.* 127:638. (IHC)
-

Description: CD123 is the 70 kD transmembrane α chain of the IL-3 receptor. Alone, CD123 binds IL-3 with low affinity; when CD123 associates with CDw131 (common β chain), it binds IL-3 with high affinity. CD123 does not transduce intracellular signals upon binding IL-3 and requires the β chain for this function. CD123 is expressed by myeloid precursors, macrophages, dendritic cells, mast cells, basophils, megakaryocytes, and some B cells.

- Antigen** 1. Miyajima A, *et al.* 1993. *Blood* 82:1960.
- References:**