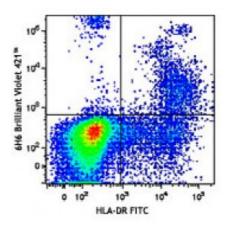
Product Data Sheet

Brilliant Violet 421[™] anti-human CD123

Catalog # / Size:	2130090 / 100 tests 2130085 / 25 tests
Clone:	6H6
Isotype:	Mouse IgG1, к
Immunogen:	Human IL-3R α transfected COS cells.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 421 [™] and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration:	Lot-specific

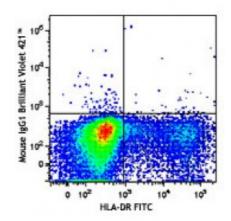


Human peripheral blood leukocytes were stained with HLA-DR FITC and CD123 (clone 6H6) Brilliant Violet 421[™] (top) or mouse IgG1 Brilliant Violet 421[™] isotype control (bottom). Data shown was gated on lymphocyte population.

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 421 [™] excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421 [™] is a trademark of Sirigen Group Ltd.
	This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use

the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent



applications and foreign equivalents.

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 blotting1, immunoprecipitation1, and immunohistochemical staining of acetone-fixed frozen sections2.
Application References:	 Sun Q, <i>et al.</i> 1996. <i>Blood</i> 87:83. (IP, WB) Herling M, <i>et al.</i> 2003. <i>Blood</i> 101:5007. (IHC) Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) <u>PubMed</u> Martin-Gayo E, <i>et al.</i> 2010. <i>Blood</i> 115:5366. <u>PubMed</u> Lee J, <i>et al.</i> 2015. <i>J Exp Med.</i> 212:385. <u>PubMed</u>
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 References:	1. Miyajima A, <i>et al.</i> 1993. <i>Blood</i> 82:1960.