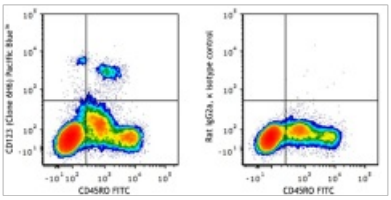
SONY

# Product Data Sheet

## Pacific Blue™ anti-human CD123

| | |
|---|---|
| **Catalog # / Size:** | 2130215 / 25 tests<br>2130220 / 100 tests |
| **Clone:** | 6H6 |
| **Isotype:** | Mouse IgG1, κ |
| **Immunogen:** | Human IL-3Rα transfected COS cells. |
| **Reactivity:** | Human, Other |
| **Preparation:** | The antibody was purified by affinity chromatography and conjugated with Pacific Blueâ„¢ under optimal conditions. The solution is free of unconjugated Pacific Blueâ„¢. |
| **Formulation:** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA). |
| **Concentration:** | Lot-specific |



Human lysed whole blood was stained with CD45RO FITC and CD123 (clone 6H6, left) Pacific Blue™ or mouse IgG1, κ Pacific Blue™ isotype control (right).

## 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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome. |
| **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 paraformaldehyde fixed paraffin embedded tissue[7]. |
| **Application References:** | 1. Miyajima A, *et al.* 1993. *Blood* 82:1960. |

---

| | |
|---|---|
| **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, *et al.* 1993. *Blood* 82:1960. |

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.
Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com