

**Alexa Fluor® 700 anti-human CD123**

**Catalog # / Size:** 2130195 / 25 tests  
2130200 / 100 tests

**Clone:** 6H6

**Isotype:** Mouse IgG1, κ

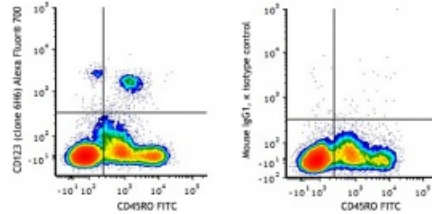
**Immunogen:** Human IL-3Rα transfected COS cells.

**Reactivity:** Human, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.

**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) Alexa Fluor® 700 (left) or CD45RO FITC and Mouse IgG1, κ Alexa Fluor® 700 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.

\* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 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<sup>1</sup>, immunoprecipitation<sup>1</sup>, and immunohistochemical staining of acetone-fixed frozen sections<sup>2</sup> and also paraformaldehyde fixed paraffin embedded tissue<sup>7</sup>.

**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.