

Product Data Sheet

Alexa Fluor® 647 anti-human CD126 (IL-6R α)

Catalog # / Size: 345303 / 25 tests
345304 / 100 tests

Clone: BL-126

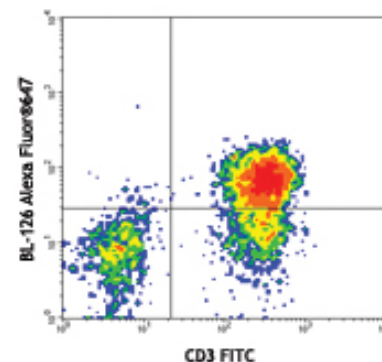
Isotype: Mouse IgG1

Reactivity: Human

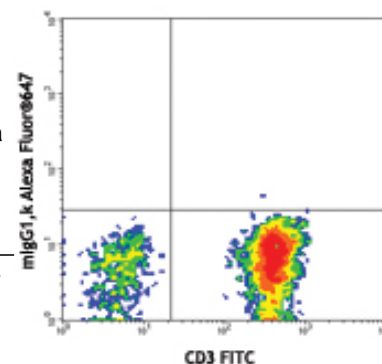
Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with CD3 (UCHT1) FITC and BL-126 Alexa Fluor®647 (top) or mIgG1,κ Alexa Fluor®647 isotype control (bottom)



Applications:

Applications: FC - Quality tested

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

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Description: CD126 is an 80 kD IL-6 receptor α chain also known as IL-6R. It is a member of the immunoglobulin superfamily that is expressed on plasma cells, T cells, activated B cells, monocytes, hepatocytes, epithelial cells, and fibroblasts. Functional IL-6 receptors are formed by the non-covalent association of CD126 and the IL-6 receptor β chain (CD130 or gp130). CD126 binds IL-6 with low affinity, but does not signal. The β chain (gp130, CD130) does not bind IL-6 by itself, but associates with the α -chain/IL-6 complex to initiate signal transduction. IL-6 binding to the receptor complex results in the stimulation of B and T cells, and hematopoietic precursor proliferation and differentiation. Soluble form of CD126 has been found in human serum.

Antigen References:

1. Taga T, *et al.* 1997. *Annu. Rev. Immunol.* 15:797.
2. Fitzgerald K, *et al.* 2001. *The Cytokine FactsBook.* Academic Press London.
3. Boulanger MJ, *et al.* 2003. *Science* 300:2101.
4. Gaillard JP, *et al.* 1993. *Eur. J. Immunol.* 23:820

Related Products:

Product
 Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 MOPC-21

Application
 FC, IF
 FC, ICC, ICFC
 FC, ICFC
 FC, ICC, ICFC



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