

Technical Data Sheet

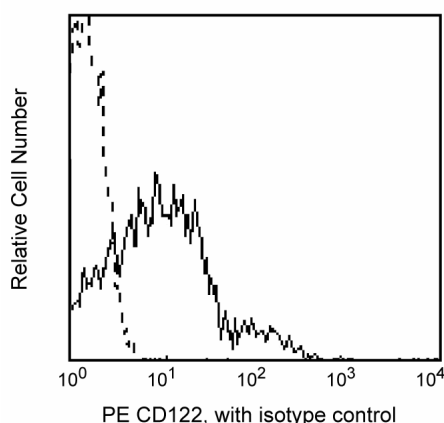
PE Mouse Anti-Human CD122

Product Information

Material Number:	554525
Alternate Name:	IL2RB; IL-2Rβ; IL-2R subunit beta; IL-2RB; IL15RB; IL-2/15Rb; IL-2R p75
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	Mik-β3
Immunogen:	Human YTS Cell Line
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V C046
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The Mik-β3 monoclonal antibody specifically binds to CD122. CD122 is also known as IL-2/15Rβ because it is the shared p75 subunit (IL-12Rβ/IL-15Rβ) of heteromeric receptors for IL-2 and IL-15. CD122 is a 70-75 kD type I transmembrane glycoprotein expressed on thymocytes, T cells, B cells, NK cells, monocytes, hematopoietic progenitor cells, fetal liver cells and stromal cells. The CD122 plays roles in the activation, differentiation and proliferation of various cell types including T cells, B cells and NK cells.



Flow cytometric analysis of CD122 expression on human peripheral blood lymphocytes. Whole blood was stained with either PE Mouse Anti-Human CD122 (Cat. No. 554525; solid line histogram) or PE Mouse IgG1 κ Isotype Control (Cat. No. 554680; dashed line histogram). Erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). Fluorescent histograms were derived from gated events with the forward and light-scattering characteristics of viable lymphocytes. Flow cytometry was performed on a BD FACScan™ system.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry

Routinely Tested

Recommended Assay Procedure:

This antibody has also been reported to be useful for immunoprecipitation experiments. It has been reported to precipitate from YTS cell lysates a 90,000 kD complex (IL-2 + p75). This antibody has also been reported not to block IL-2 binding to the β chain of the IL-2 receptor. Please note that this application is not routinely tested at BD Biosciences.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554680	PE Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
349202	BD FACS™ Lysing Solution	100 mL	(none)
555899	Lysing Buffer	100 mL	(none)

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554525 Rev. 2



Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

Ishikawa T, Uchiyama T, Kamio M, Onishi R, Kodaka T, Okuma M. IL-4 down-regulates IL-2 receptor p75 by accelerating its endocytosis. *Int Immunol.* 1991; 3(6):517-525. (Biology)

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