Technical Data Sheet

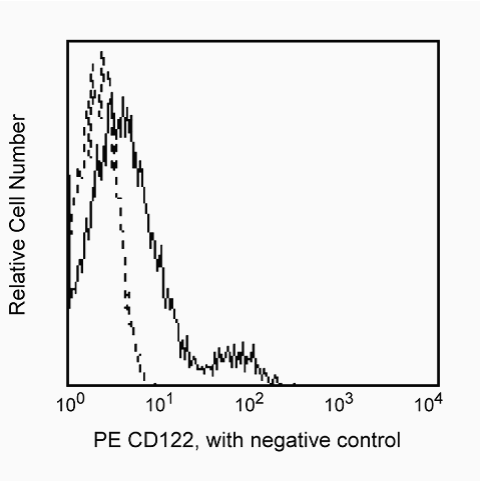
PE Mouse Anti-Human CD122

Product Information

Material Number:	**554522**
Alternate Name:	IL-2 Receptor β chain
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	Mik-β2
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Workshop:	V C045
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The antibody from this clone reacts with the 75 kD β subunit (p75) of the IL-2 receptor (IL-2Rβ). Cell surface IL-2Rα molecules are expressed by T cells, B cells, monocytes, myeloid precursors, NK cells, and LGL. Together with the α subunit (p55, CD25) and the common γ subunit (γc subunit of the IL-2R, IL-4R, and IL-7R), the IL-2Rβ molecule forms a high-affinity, signaling receptor complex for IL-2 which can be expressed by activated T and B lymphocytes. Alternatively, some cell types, such as NK cells and myeloid cell populations, coexpress IL-2Rβ molecules and γc subunits to form intermediate-affinity, signalling receptor complexes for IL-2.



Profile of peripheral blood lymphocytes analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

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

Application Notes

Application

Flow cytometry	Routinely Tested
Blocking	Reported

Recommended Assay Procedure:

The antibody from clone Mik-β2 has been reported to inhibit dose-dependently the [125]I-IL-2 binding to YTS cells, which express the β chain alone, with a 50% binding inhibition at 3 mg/ml. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit **bdbiosciences.com/how_to_order/**

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
4. 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.

References

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* New York: Oxford University Press; 1995.(Biology)

Tsudo M, Kitamura F, Miyasaka M. Characterization of the interleukin 2 receptor beta chain using three distinct monoclonal antibodies. *Proc Natl Acad Sci U S A.* 1989; 86(6):1982-1986.(Biology)