

Technical Data Sheet

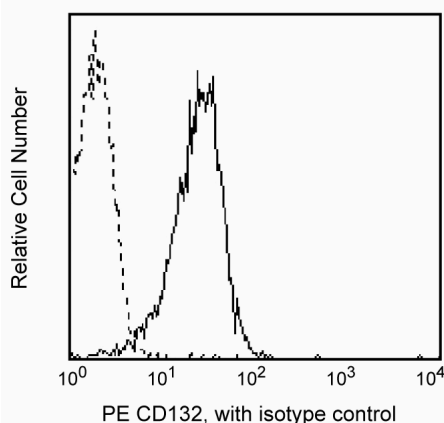
PE Mouse Anti-Human CD132

Product Information

Material Number:	561699
Alternate Name:	common γ chain
Size:	25 μ g
Concentration:	0.2 mg/ml
Clone:	AG184
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI C-100
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with the 65-70 kDa common γ subunit (γ c) shared by the IL-2, IL-4, and IL-7 receptors. The γ c receptor is constitutively expressed by most peripheral T and B lymphocytes, NK cells, monocytes and granulocytes. The cytoplasmic domain of the γ c chain plays an important role in cytokine-mediated signal transduction. By immunofluorescent staining and flow cytometric analyses, the AG184 antibody has been shown to specifically recognize human γ c expressed by cell lines including human γ c gene-transfected cell lines which are known to express the human γ c chain. The AG184 antibody can bind the γ c chain in the receptors complexed with IL-2, IL-4, or IL-7, indicating that the antibody recognizes an epitope which is distinct from the cytokine binding site of the γ c chain.



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

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
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Suggested Companion Products

Catalog Number	Name	Size	Clone
554680	PE Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21

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. 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 Fluorochrome Web Page at www.bdbiosciences.com/colors.

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References

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- Ishii N, Takeshita T, Kimura Y, et al. Expression of the IL-2 receptor gamma chain on various populations in human peripheral blood. *Int Immunol*. 1994; 6(8):1273-1277. (Biology)
- Matsuoka M, Takeshita T, Ishii N, Nakamura M, Ohkubo T, Sugamura K. Kinetic study of interleukin-2 binding on the reconstituted interleukin-2 receptor complexes including the human gamma chain. *Eur J Immunol*. 1993; 23(10):2472-2476. (Biology)