Technical Data Sheet

PE Rat Anti-Mouse CD132

Product Information

Material Number:	**554457**
Alternate Name:	Common γ chain, γc
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	4G3
Isotype:	Rat (LEW) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 4G3 antibody reacts with the common γ subunit (γc) shared by the IL-2, IL-4, IL-7, IL-9 and IL-15 receptors also known as CD132. This receptor is expressed constitutively at low levels on most lymphocytes, myeloid cells, and embryonic thymocytes. The γc receptor is a 75 - 80 kD transmembrane glycoprotein which mediates signal transducing activities of cytokine receptor complexes with which it is associated.

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

Recommended Assay Procedure:

Immunofluorescent Staining and Flow Cytometric Analysis: This PE conjugated antibody is recommend for the immunofluorescent staining of γc receptor-bearing cells for flow cytometry.

Neutralization: The NA/LE™ format of the 4G3 antibody (Cat. No. 554454) strongly inhibits the IL-15-induced proliferative response of mouse CTLL cells but minimally inhibits the IL-2-induced responses of CTLL cells.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553930	PE Rat IgG2a, κ Isotype Control	0.1 mg	R35-95

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.

References

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