

PE anti-mouse CD132 (common γ chain)

Catalog # / Size: 132305 / 50 μ g
132306 / 200 μ g

Clone: TUGm2

Isotype: Rat IgG2b, κ

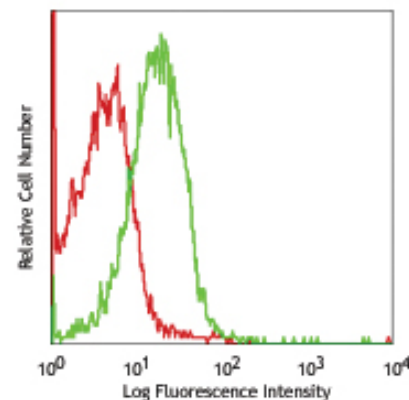
Reactivity: Mouse

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

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



C57BL/6 splenocytes stained with TUGm2 PE

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 $\leq 1.0 \mu$ g per 10^6 cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:

1. Kondo M, *et al.* 1993. *Science* 262:1874 (Block)
2. Kondo M, *et al.* 1994. *Science* 263:1453
3. Kimura Y, *et al.* 1995. *Int Immunol.* 7:115 (Block)
4. Veerman KM, *et al.* 2012. *J. Immunol.* 188:1638. PubMed.

Description: CD132 is a 64-70 kD type I transmembrane glycoprotein of the Ig superfamily, and is also known as common γ chain (γ c) or IL-2 receptor γ subunit. It is expressed broadly on T- and B-lymphocytes, NK cells, monocytes, and granulocytes. CD132 is an essential component of cytokine receptors for IL-2, IL-4, IL-7, IL-9, IL-15, and IL-21. Ligand binding induces tyrosine phosphorylation and initiates signaling through a JAK/STAT pathway. CD132 mutation results in X-linked severe combined immune deficiency (XSCID).

Antigen References:

1. Itano M, *et al.* 1996. *Tohoku J. Exp. Med.* 178:389
2. Zola H, *et al.* eds. 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers.* Wiley-Liss A John Wiley & Sons Inc, Publication
3. Nakarai T, *et al.* 1994. *J. Exp. Med.* 180:241
4. Kawahara A, *et al.* 1995. *Proc. Natl. Acad. Sci. USA.* 92:8724
5. Habib T, *et al.* 2002. *Biochemistry.* 41:8725
6. Matthews DJ, *et al.* 1995. *Blood* 85:38

Related Products:

Product	Clone	Application
PE Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.