Technical Data Sheet

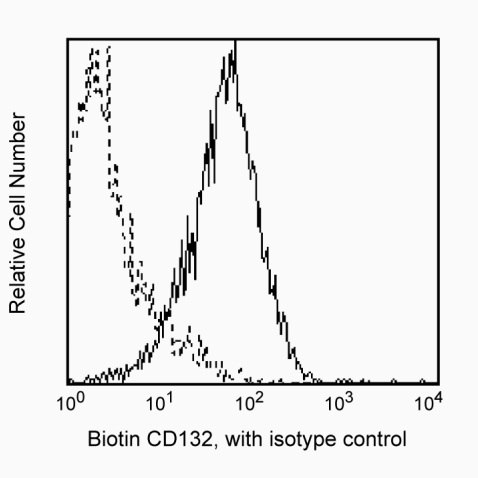
Biotin Rat Anti-Human CD132

Product Information

Material Number:	**555897**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	TUGh4
Isotype:	Rat IgG2b, κ
Reactivity:	QC Testing: Human Tested in Development: Dog
Workshop:	VI C-89
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

This antibody reacts with the 65-70 kDa common γ subunit (γc) shared by the IL-2, IL-4, IL-7, IL-9, and IL-15 receptors. The γc receptor is a glycoprotein expressed by most peripheral T and B lymphocytes, NK cells, monocytes, and granulocytes. The cytoplasmic domain of the γc chain plays an important role in cytokine-mediated signal transduction. By immunofluorescent staining and flow cytometric analysis, the TUGh4 antibody has been shown to specifically recognize human γc expressed by cell lines, including human γc gene-transfected cell lines, which are known to express the human γc chain. Clone TUGh4 recognizes a different epitope from clone AG184 (Cat. No. 555900).



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

Preparation and Storage

Store undiluted at 4°C.

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

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555847	Biotin Rat IgG2b, κ Isotype Control	100 tests	R35-38
554061	PE Streptavidin	0.5 mg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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References

Guesdon JL, Ternynck T, Avrameas S. The use of avidin-biotin interaction in immunoenzymatic techniques. *J Histochem Cytochem.* 1979; 27(8):1131-1139. (Biology)

Ishii N, Kondo M, Takeshita T, and Sugamura K. mAb specific for the γ chain of the IL-2 receptor. In: Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* Oxford: Oxford University Press; 1995:1867-1868. (Biology)

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)

Kishimoto T, von dem Borne AEG, Goyert SM,et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens.* London: Garland Publishing; 1997. (Clone-specific)

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)