# **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  $\gamma$  subunit ( $\gamma c$ ) shared by the IL-2, IL-4, IL-7, IL-9, and IL-15 receptors. The  $\gamma c$  receptor is a glycoprotein expressed by most peripheral T and B lymphocytes, NK cells, monocytes, and granulocytes. The cytoplasmic domain of the yc 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 yc expressed by cell lines, including human yc gene-transfected cell lines, which are known to express the human yc 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	l						
Flow cytometry Routinely Tested							
Suggeste	d Compani	on Produc	ts				
Catalog Number		Name	Name			Size	Clone
555847		Biotin R	Biotin Rat IgG2b, κ Isotype Control			100 tests	R35-38
554061	4061 PE Streptavidin				0.5 mg	(none)	
Product N	lotices						
1. Since a	applications va	ary, each inves	stigator should	titrate the reag	gent to obtain optimal results.		
2. Cautio	n: Sodium azi	de yields high	ly toxic hydraz	zoic acid under	acidic conditions. Dilute azide co	ompounds in running wa	ter before
discard	ling to avoid a	ecumulation of	of potentially e	xplosive depos	sits in plumbing.		
3. Please	refer to www	bdbiosciences	s.com/pharmin	gen/protocols i	for technical protocols.		
<b>BD Biosci</b>	ences						
bdbiosciences	.com						
United States 877.232.8995	<b>Canada</b> 888.268.5430	Europe 32.53.720.550	<b>Japan</b> 0120.8555.90	Asia Pacific 65.6861.0633	Latin America/Caribbean 0800.771.7157		

United States Canada Asia Pacific Latin America/Caribbean Europe Japan 877.232.8995 888.268.5430 32.53.720.550 0120.8555.90 65.6861.0633 0800.771.7157 For country-specific contact information, visit bdbiosciences.com/how\_to\_order/ Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited. For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale. BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2011 BD

#### 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)