Technical Data Sheet

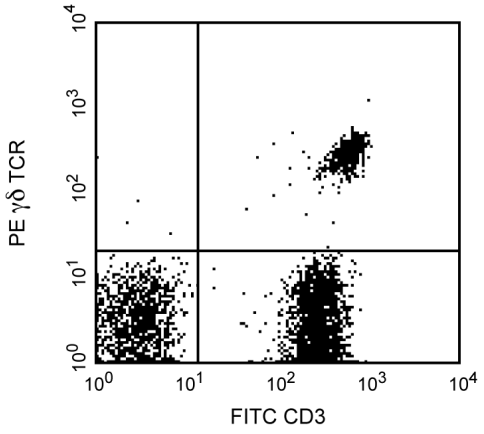
PE Mouse Anti-Human TCR γδ

Product Information

Material Number:	**555717**
Alternate Name:	TCRgd; γδ TCR; TRG@, TRD@; TCRG, TCRD; TCR gamma delta
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	B1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The B1 monoclonal antibody specifically binds to the γδ T cell receptor (γδ TCR). This receptor complex consists of two disulfide-linked transmembrane glycoproteins, a γ chain (45-60 kDa) and a δ subunit (40-60 kDa). The γδ TCR is associated with the signal-transducing CD3 complex. The γδ TCR is expressed by thymocytes and by peripheral T cell subsets (γδ T cells) that are located in the blood, liver, skin and various lymphoid and mucosal tissues. γδ T cells contribute to both innate and adaptive immune responses to infections and tumors. Reports suggest that γδ T cells may also play roles in antigen presentation and the regulation of autoimmune responses.



Profile of peripheral blood lymphocytes analyzed by flow cytometry.

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

Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
555335	APC Mouse Anti-Human CD3	100 tests	UCHT1
555916	FITC Mouse Anti-Human CD3	100 tests	UCHT1
554656	Stain Buffer (FBS)	500 ml	(none)
555899	Lysing Buffer	100 ml	(none)

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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 Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. An isotype control should be used at the same concentration as the antibody of interest.

References

Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook.* San Diego, CA: Academic Press; 1997. (Biology)

Breit TM, Wolvers-Tettero IL, van Dongen JJ. Receptor diversity of human T-cell receptor gamma delta expressing cells. *Prog Histochem Cytochem.* 1992; 26(1-4):182-193. (Biology)

Kabelitz D. Function and specificity of human gamma/delta-positive T cells. *Crit Rev Immunol.* 1992; 11(5):281-303. (Biology)

Kabelitz D, Pechhold K, Bender A, et al. Activation and activation-driven death of human gamma/delta T cells. *Immunol Rev.* 1991; 120:71-88. (Biology)

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