

## Technical Data Sheet

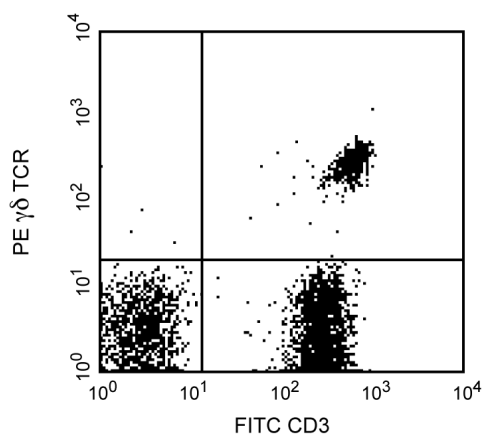
PE Mouse Anti-Human TCR  $\gamma\delta$ 

## Product Information

<b>Material Number:</b>	<b>561994</b>
<b>Alternate Name:</b>	TCRgd; $\gamma\delta$ TCR; TRG@, TRD@; TCRG, TCRD; TCR gamma delta
<b>Size:</b>	25 $\mu$ g
<b>Concentration:</b>	0.2 mg/ml
<b>Clone:</b>	B1
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Reactivity:</b>	QC Testing: Human
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

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



**Flow cytometric analysis of TCR  $\gamma\delta$  expression on human peripheral blood lymphocytes.** Human whole blood was costained with FITC Mouse Anti-Human CD3 (Cat. No. 561807/561806/555332/555916) and PE Mouse Anti-Human TCR  $\gamma\delta$  (Cat. No. 561994/555717). Erythrocytes were lysed with BD FACS™ Lysing Solution (Cat. No. 349202). Two color dot-plots were derived from gated events with the side and forward light-scatter characteristics of viable lymphocytes.

## 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
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## Suggested Companion Products

Catalog Number	Name	Size	Clone
555916	FITC Mouse Anti-Human CD3	100 Tests	UCHT1
555749	PE Mouse IgG1, $\kappa$ Isotype Control	100 Tests	MOPC-21
555332	FITC Mouse Anti-Human CD3	100 Tests	UCHT1
561806	FITC Mouse Anti-Human CD3	25 Tests	UCHT1
561807	FITC Mouse Anti-Human CD3	500 Tests	UCHT1
555899	Lysing Buffer	100 mL	(none)
349202	BD FACS™ Lysing Solution	100 mL	(none)
555717	PE Mouse Anti-Human TCR $\gamma\delta$	0.1 mg	B1
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)

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## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
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](http://www.bdbiosciences.com/colors).
5. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

## References

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