

**PE/Cyanine7 anti-human TCR V $\gamma$ 9**

**Catalog # / Size:** 2256595 / 25 tests  
2256600 / 100 tests

**Clone:** B3

**Isotype:** Mouse IgG1,  $\kappa$

**Immunogen:** Phycoerythrin

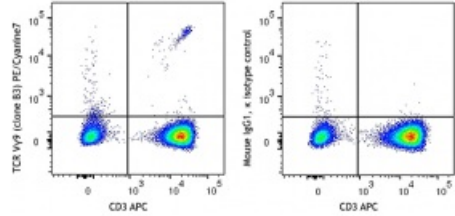
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. The solution is free of unconjugated PE/Cyanine7 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Workshop Number:** HCDM listed

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD3 (clone UCHT1) APC and anti-human TCR V $\gamma$ 9 (clone B3) PE/Cyanine7 (left) or mouse IgG1,  $\kappa$  PE/Cyanine7 isotype control (right).

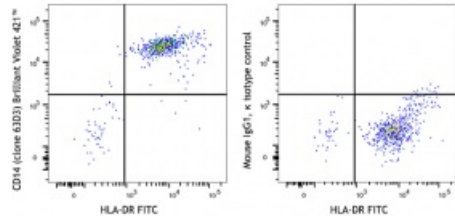
**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ l per million cells in 100  $\mu$ l staining volume or 5  $\mu$ l per 100  $\mu$ l of whole blood.

**Application Notes:** Due to complete conservation of the immunizing sequence between humans, mouse and rat, this clone is predicted to react with rat RPS6 phosphorylated at serines 235 and 236.

**Application References:** 1. Van Rhijn I, et al. 2003. *Intl. Immunol.* 15:373.  
2. Yoshino N, et al. 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)



Human peripheral blood monocytes were stained with HLA-DR FITC and Brilliant Violet 421<sup>™</sup> anti-human CD14 (clone 63D3) (left) or Brilliant Violet 421<sup>™</sup> mouse IgG1,  $\kappa$  isotype control (right).

**Description:** The V $\gamma$ 9 TCR is a variant of the TCR  $\gamma$  chain expressed on a subset of  $\gamma/\delta$  T cells. V $\gamma$ 9V $\delta$ 2 T lymphocytes, a major  $\gamma/\delta$  T cell subset in humans, recognize phosphoantigens, certain tumor cells, and cells treated with aminobisphosphonates. This cell population displays cytolytic activity against various tumor cells. The  $\gamma/\delta$  TCR is a heterodimeric TCR complex composed of covalently bound  $\gamma$  and  $\delta$  chains involved in antigen recognition and the non-covalently associated monomorphic proteins CD3 $\delta$ ,  $\gamma$ ,  $\epsilon$ , and  $\zeta$  chains.

**Antigen**  
**References:**

1. Scotet E, *et al.* 2005. *Immunity* 22:71
2. Rincon-Orozco B, *et al.* 2005. *J. Immunol.* 175:2144