SONY

Product Data Sheet

Alexa Fluor® 700 anti-human TCR Vγ9

Catalog # / Size: 2256590 / 100 tests
2256585 / 25 tests

Clone: B3

Isotype: Mouse IgG1, κ

Immunogen: PSGL-1 transfected murine 300.19 pre B-cell line

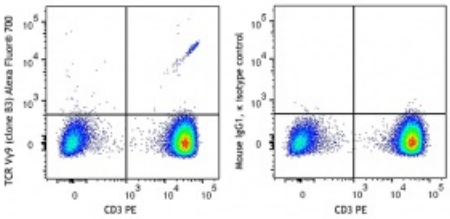
Reactivity: Human, Non-human primate

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.

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

Workshop Number: V CD40.5

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 (clone UCHT1) PE and anti-human TCR Vγ9 (clone B3) Alexa Fluor® 700 (left) or Mouse IgG1, κ Alexa Fluor® 700 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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes: Clone KPL-1 is reported to recognize the tyrosine sulfation consensus motif of PSGL-1[1]. Additional reported applications (for the relevant formats) include: Western Blot[1], immunoprecipitation[2], immunohistochemical staining of acetone-fixed frozen tissue sections and formalin-fixed paraffin embedded tissue sections[1], blocks the recognition of PSGL-1 with P- and L-selectin[1].

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)

Description: The Vγ9 TCR is a variant of the TCR γ chain expressed on a subset of γ/δ T cells. Vγ9Vδ2 T lymphocytes, a major γ/δ 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 γ/δ TCR is a heterodimeric TCR complex composed of covalently bound γ and δ chains involved in antigen recognition and the non-covalently associated monomorphic proteins CD3δ, γ, ε, and ζ chains.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

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