SONY

Product Data Sheet

Alexa Fluor® 647 anti-mouse FR4 (Folate Receptor 4)

Catalog # / Size: 1225045 / 25 µg

Clone: 12A5

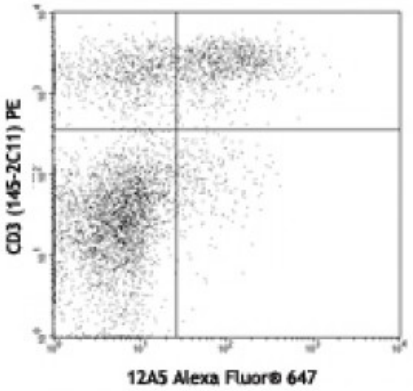
Isotype: Rat IgG2b, κ

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5



C57BL/6 mouse splenocytes stained with CD3 (145-2C11) PE and 12A5 Alexa Fluor® 647

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 ≤ 0.25 microg per 10^6 cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for other applications.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

Application References:
1.Yamaguchi T *et al.* 1007:*Immunity* 27(1)145

Description: Folate receptor 4 (FR4) is a surface receptor for folic acid (Vitamin B9).It was recently reported that FR4 is highly and constitutively expressed on mouse $CD4^+$ $CD25^+$ natural regulatory T cells (Treg).The high expression of this surface marker on Treg can be used in combination with CD4 and CD25 to distinguish Treg from other types of T cells.Since FR4 is a surface marker,this antibody may be used in combination with anti-CD4 and/or CD25 to sort living T reg cells for functional studies.

Antigen References:
1. Yamaguchi T *et al* 2007. *Immunity* 27:145
2. Spiegelstein O *et al.* 2000 *Gene* 258:117

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