SONY

# Product Data Sheet

## APC/Fire™ 750 anti-mouse FR4 (Folate Receptor 4)

**Catalog # / Size:** 1225065 / 25 µg
1225070 / 100 µg

**Clone:** 12A5

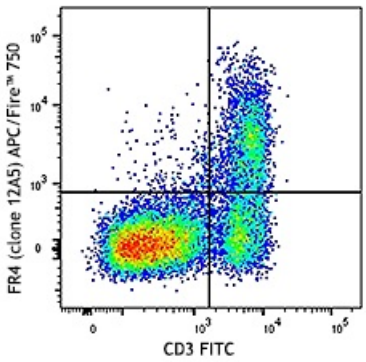
**Isotype:** Rat IgG1, κ

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

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

**Concentration:** 0.2 mg/ml



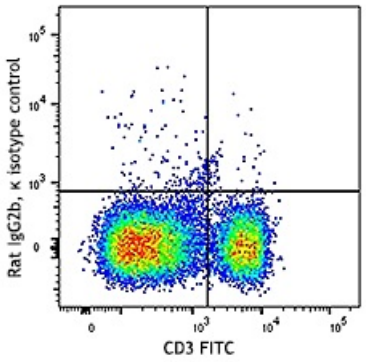

C57BL/6 mouse splenocytes were stained with CD3 FITC and FR4 (Folate Receptor 4, clone 12A5) APC/Fire™ 750 (top) or rat IgG2b, κ APC/Fire™ 750 isotype control (bottom).

## 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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.




**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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