

FITC anti-mouse FR4 (Folate Receptor 4) Antibody

Catalog# / Size	125005 / 50 µg 125006 / 200 µg
Clone	12A5
Regulatory Status	RUO
Other Names	Folate Receptor 4, FBP, FR δ
Isotype	Rat IgG1, κ
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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 µg per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm)
Application References	1. Yamaguchi T <i>et al.</i> 1007: <i>Immunity</i> 27(1)145
(PubMed link indicates BioLegend citation)	
RRID	AB_1134204 (BioLegend Cat. No. 125005) AB_1134200 (BioLegend Cat. No. 125006)

Antigen Details

Structure	28 kd protein consisting of 244 amino acids. Heavily glycosylated
Distribution	Expressed on mouse thymocytes and spleen cells. Highly expressed on natural regulatory (Treg) cells
Function	Mediate calcium-independent homophilic cell-cell adhesion
Ligand/Receptor	Folic acid and its derivative

Cell Type	Dendritic cells, T cells, Thymocytes, Tregs
Biology Area	Immunology, Innate Immunity
Antigen References	1. Yamaguchi T <i>et al</i> 2007. <i>Immunity</i> 27:145 2. Spiegelstein O <i>et al.</i> 2000 <i>Gene</i> 258:117
Gene ID	64931

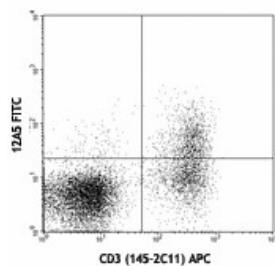
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PerCP/Cyanine5.5 anti-mouse FR4 (Folate Receptor 4), PE/Dazzle™ 594 anti-mouse FR4 (Folate Receptor 4), APC/Fire™ 750 anti-mouse FR4 (Folate Receptor 4), FITC anti-mouse FR4 (Folate Receptor 4), PE anti-mouse FR4 (Folate Receptor 4), Alexa Fluor® 647 anti-mouse FR4 (Folate Receptor 4), PE/Cyanine7 anti-mouse FR4 (Folate Receptor 4)

Product Data



C57BL/6 mouse splenocytes stained with CD3 (145-2C11) APC and 12A5 FITC

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