

PE/Cyanine7 anti-mouse FR4 (Folate Receptor 4) Antibody

Catalog# / Size	125012 / 100 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 PE/Cyanine7 under optimal conditions.
Concentration	0.2 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) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	1. Yamaguchi T <i>et al.</i> 1007: <i>Immunity</i> 27(1)145
(PubMed link indicates BioLegend citation)	
Product Citations	1. Harsha Krovi S, <i>et al.</i> 2020. Nat Commun. 4.790277778. PubMed 2. Watanabe M, <i>et al.</i> 2020. Nat Commun. 4.808333333. PubMed
RRID	AB_1134199 (BioLegend Cat. No. 125012)

Antigen Details

Structure	28 kd protein consisting of 244 amino acids. Heavily glycosylated
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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	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

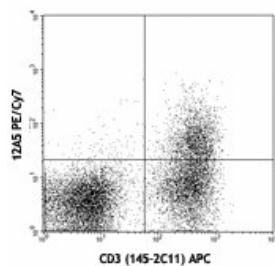
Related Protocols

[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 PE/Cyanine7

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