

PE anti-mouse Folate Receptor β (FR- β) Antibody

Catalog# / Size	153303 / 25 μ g 153304 / 100 μ g
Clone	10/FR2
Regulatory Status	RUO
Other Names	FR- β
Isotype	Rat IgG2a, κ
Description	Folate receptor beta (FR- β) is a member of a family of folate binding receptors that have diverse structural identities but mediate transport of folates into cells. FR- β is a GPI-anchored protein with high affinity for folic acid. It is postulated that this receptor function as folate scavengers when folate supply is low or rapid cell growth requires elevated uptake of folate for methylation reactions including DNA biosynthesis. Although this protein was originally thought to be specific to placenta, it can also exist in other tissues, and it may play a role in the transport of methotrexate in synovial macrophages in rheumatoid arthritis patients.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse Folate receptor β transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE 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 \leq 0.5 μ g per million cells in 100 μ l 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)
Application References	1. Nagai T, <i>et al.</i> 2009. <i>Cancer Immunol Immunother.</i> 1577-86.
(PubMed link indicates BioLegend citation)	
Product Citations	1. Utz SG, <i>et al.</i> 2020. <i>Cell.</i> 181(3):557-573. PubMed 2. Scheyltjens I, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:2354. PubMed
RRID	AB_2721343 (BioLegend Cat. No. 153303) AB_2721344 (BioLegend Cat. No. 153304)

Antigen Details

Structure	30 kD, seven disulfide bonds
Distribution	Placenta, monocytes, tissue resident macrophages
Function	Transport of folate into cells
Ligand/Receptor	Folic Acid
Cell Type	Macrophages, Monocytes
Antigen References	<ol style="list-style-type: none"> 1. Elwood PC, 1989, <i>J Biol Chem</i>, 264:14893. 2. Shen F, et al, 1994, <i>Biochemistry</i>, 8;33:1209. 3. Yi YS, 2016, <i>Immune Netw</i>,16:337.
Gene ID	14276

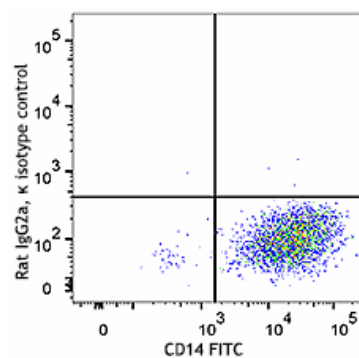
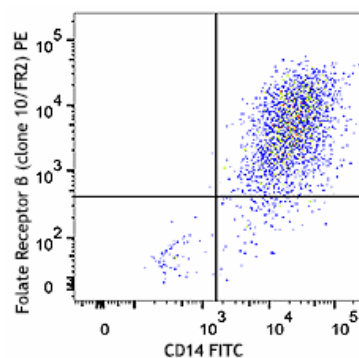
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse Folate Receptor β (FR- β), APC anti-mouse Folate Receptor β (FR- β), PE anti-mouse Folate Receptor β (FR- β), TotalSeq™-A0564 anti-mouse Folate Receptor β (FR- β), TotalSeq™-B0564 anti-mouse Folate Receptor β (FR- β) Antibody

Product Data



Thioglycolate elicited BALB/c mouse peritoneal macrophages were stained with CD14 FITC and anti-mouse Folate Receptor β (clone 10/FR2) PE (top) or PE Rat IgG2a, κ isotype control (bottom).

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