

Pacific Blue™ anti-IRF4 Antibody

Catalog# / Size	646417 / 25 µg 646418 / 100 µg
Clone	IRF4.3E4
Regulatory Status	RUO
Other Names	Interferon regulatory factor 4
Isotype	Rat IgG1, κ
Description	The IRF family consists of at least nine members. IRF4 and IRF8 are highly homologous to each other and also redundant in function. IRF4 is critical for Th2 and Th17 development. Together with TRF8, it plays an essential role in macrophage and dendritic cell development and function. IRF4 is also reported to be essential for pre-B cell development, receptor editing, germinal center reactor and plasma cell differentiation.

Product Details

Verified Reactivity	Mouse, Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	GST fusion protein containing C-terminal of murine IRF4
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ 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	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular flow cytometry using our True-Nuclear™ Transcription Factor Staining Protocol . For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: spatial biology (IBEX) ^{3,4} .
Application References	1. Zheng Y, <i>et al.</i> 2009. <i>Nature</i> 458:351 2. Yin SY, <i>et al.</i> 2011. <i>Exp Cell Res.</i> 317:2210. PubMed 3. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) PubMed 4. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_2814496 (BioLegend Cat. No. 646417) AB_2814497 (BioLegend Cat. No. 646418)

Antigen Details

Structure	Molecular weight is approximately 51 kD.
Distribution	IRF4 is reported to be expressed exclusively in the immune system.
Biology Area	Cell Biology, Transcription Factors
Molecular Family	Nuclear Markers
Antigen References	1. Lu R. 2008. <i>Trends Immunol</i> 29:487.
Gene ID	3662

Related Protocols

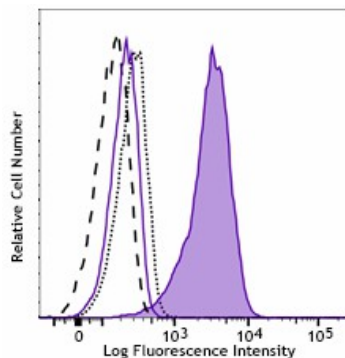
[True-Nuclear™ Transcription Factor Staining Protocol for 96-Well U Bottom Plate](#)

[True-Nuclear™ Transcription Factor Staining Protocol for 5mL Tubes](#)

Other Formats

Alexa Fluor® 488 anti-IRF4, Purified anti-IRF4, PE anti-IRF4, Alexa Fluor® 647 anti-IRF4, Go-ChIP-Grade™ Purified anti-IRF4, PE/Cyanine7 anti-IRF4, PerCP/Cyanine5.5 anti-IRF4, Alexa Fluor® 594 anti-IRF4, Pacific Blue™ anti-IRF4

Product Data



PHA-stimulated (3 days) or freshly isolated human peripheral blood lymphocytes were stained with CD4 APC, this fixed and permeabilized with True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401). Cells were then stained with IRF4 (clone IRF4.3E4) Pacific Blue™ (open histogram with solid line for fresh cells, filled histogram for stimulated cells) or rat IgG1, κ Pacific Blue™ isotype control (dash line for fresh cell, dot line for stimulated cells). Data shown was gated on CD4⁺ lymphocyte population.

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