

Alexa Fluor® 488 anti-IRF4 Antibody

Catalog# / Size	646405 / 25 µg 646406 / 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 Alexa Fluor® 488 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	<p>Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: spatial biology (IBEX) ^{3,4} .
Application References	<ol style="list-style-type: none">1. Zheng Y, <i>et al.</i> 2009. <i>Nature</i> 458:3512. Yin SY, <i>et al.</i> 2011. <i>Exp Cell Res.</i> 317:2210. PubMed3. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) PubMed4. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none">1. Shimizu K, <i>et al.</i> 2020. <i>Molecular Cell.</i> 77(5):937-950.e6.. PubMed2. Ford K, <i>et al.</i> 2020. <i>Cancer Res.</i> 80:1846. PubMed3. Moon HG <i>et al.</i> 2018. <i>Immunity.</i> 49(2):275-287 . PubMed4. Yang BH, <i>et al.</i> 2020. <i>Cell Reports.</i> 27(12):3629-3645.e6.. PubMed5. Zhou WJ, <i>et al.</i> 2022. <i>Sci Adv.</i> 8:eabj2488. PubMed

6. Utz SG, *et al.* 2020. *Cell*. 181(3):557-573. [PubMed](#)
7. Szodoray P, *et al.* 2021. *Cell Reports*. 36(6):109525. [PubMed](#)
8. Jenks SA *et al.* 2018. *Immunity*. 49(4):725-739 . [PubMed](#)

RRID AB_2563266 (BioLegend Cat. No. 646405)
AB_2563267 (BioLegend Cat. No. 646406)

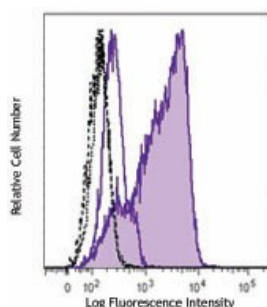
Antigen Details

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

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 lymphocytes were fixed and permeabilized with FOXP3 Fix/Perm Buffer Set. Cells were then stained with IRF4 (clone IRF4.3E4) Alexa Fluor® 488 (open histogram with solid line: fresh cells, filled histogram: stimulated cells) or rat IgG1, κ Alexa Fluor® 488 isotype control (dash line: fresh cell, dot line: stimulated cells).

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