

## PerCP/Cyanine5.5 anti-IRF4 Antibody

<b>Catalog# / Size</b>	646415 / 25 µg 646416 / 100 µg
<b>Clone</b>	IRF4.3E4
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Interferon regulatory factor 4
<b>Isotype</b>	Rat IgG1, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse, Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	GST fusion protein containing C-terminal of murine IRF4
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ICFC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by intracellular flow cytometry using our <a href="#">True-Nuclear™ Transcription Factor Staining Protocol</a> . For flow cytometric staining, the suggested use of this reagent is =0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.  * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: spatial biology (IBEX) <sup>3,4</sup> .
<b>Additional Product Notes</b>	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact <a href="#">Technical Service</a> if you have any questions.
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Zheng Y, <i>et al.</i> 2009. <i>Nature</i> 458:351</li><li>2. Yin SY, <i>et al.</i> 2011. <i>Exp Cell Res.</i> 317:2210. <a href="#">PubMed</a></li><li>3. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) <a href="#">PubMed</a></li><li>4. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) <a href="#">PubMed</a></li></ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Lee JL, <i>et al.</i> 2022. <i>Aging Cell.</i> 21:e13692. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2728481 (BioLegend Cat. No. 646415) AB_2728482 (BioLegend Cat. No. 646416)

## Antigen Details

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

## Related Protocols

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

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

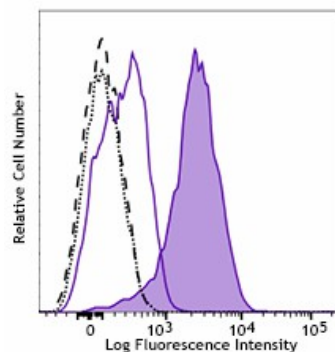
## Other Formats

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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

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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) PerCP/Cyanine5.5 (open histogram with solid line for fresh cells, filled histogram for stimulated cells) or rat IgG1, ? PerCP/Cyanine5.5 isotype control (dash line for fresh cell, dot line for stimulated cells). Data shown was gated on CD4<sup>+</sup> lymphocyte population.

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