

## Alexa Fluor<sup>®</sup> 647 anti-mouse IL-17RB Antibody

<b>Catalog# / Size</b>	146303 / 25 µg 146304 / 100 µg
<b>Clone</b>	9B10
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Evi27, IL-17ER, IL17RH1, IL17br, IL-17 receptor B
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	IL-17RB, also known as IL17RH1, belongs to the cytokine receptor family. IL-17RB possesses a unique intracellular signaling molecule called SEFIR, and is expressed similarly to fibroblast growth factor genes and IL-17R. It is reported to be expressed on iNKT cells, innate lymphoid cells (ILC), and Th2 cells. It binds IL-17B and IL-17E (IL-25) but not IL-17A or C. Its interaction with IL-25 has a higher affinity than that with IL-17B. Binding of IL-17RB and IL-25/IL-17E induces NF-κB mediated IL-8 production through interaction with TRAF6 and Act1. IL-17RB has been reported to play a role in autoimmune diseases such as rheumatoid arthritis and asthma.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Recombinant mouse IL-17RB - Fc chimera (human IgG1)
<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 Alexa Fluor <sup>®</sup> 647 under optimal conditions.
<b>Concentration</b>	0.5 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="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</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.</p> <p>* Alexa Fluor<sup>®</sup> 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor<sup>®</sup> and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Sasaki T, <i>et al.</i> 2020. Cell Reports. 28(1):202-217.e7.. <a href="#">PubMed</a></li><li>2. Zhu Y, <i>et al.</i> 2021. EMBO J. 40:e105320. <a href="#">PubMed</a></li><li>3. Wang T <i>et al.</i> 2018. Immunity. 49(3):504-514 . <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2562380 (BioLegend Cat. No. 146303) AB_2562381 (BioLegend Cat. No. 146304)

## Antigen Details

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<b>Structure</b>	Single pass type I transmembrane protein, 55.9 kD
<b>Distribution</b>	iNKT cells, innate lymphoid cells, Th2 cells
<b>Function</b>	Binds IL-25 with higher affinity than IL-17B, can block IL-25 mediated pathology
<b>Interaction</b>	TRAF6 and Act1
<b>Ligand/Receptor</b>	IL-25/IL-17E
<b>Cell Type</b>	NKT cells, Th2
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	Cytokine/Chemokine Receptors
<b>Antigen References</b>	1. Hwang SY, <i>et al.</i> 2004. <i>Arthritis Res. Ther.</i> 6:R120. 2. Rickel EA, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:4299. 3. Terashima A, <i>et al.</i> 2008. <i>J. Exp. Med.</i> 205:2727.
<b>Gene ID</b>	<a href="#">50905</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

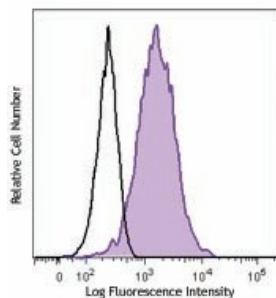
## Other Formats

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Purified anti-mouse IL-17RB, Alexa Fluor® 647 anti-mouse IL-17RB, PE anti-mouse IL-17RB, APC anti-mouse IL-17RB

## Product Data

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Mouse IL-17RB transfected 300.19 cells were stained with IL-17RB (clone 9B10) Alexa Fluor® 647 (filled histogram) or rat IgG2a, κ Alexa Fluor® 647 (open histogram).

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