

## PE/Cyanine7 anti-mouse lymphotoxin beta receptor (LT $\beta$ R) Antibody

<b>Catalog# / Size</b>	134409 / 25 $\mu$ g 134410 / 100 $\mu$ g
<b>Clone</b>	5G11
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	LT $\beta$ R, TNFRIII, TNF receptor-related protein (TNFRp)
<b>Isotype</b>	Rat IgG2a, $\kappa$
<b>Description</b>	LT $\beta$ R is a type I transmembrane glycoprotein and member of the TNF receptor superfamily. It is a 61 kDa receptor for the mouse LT $\alpha$ 1 $\beta$ 2 and LIGHT. Northern blot analysis of tissues from adult mice showed that expression levels of LT $\beta$ R mRNA were strong in lung, liver, and kidney, moderate in heart and testes, but weak in brain, thymus, spleen, and lymph nodes. It was reported that LT $\beta$ R is expressed on stromal cells, monocytes, and certain embryonic epithelial layers. LT $\beta$ R is involved in peripheral lymphoid tissue organogenesis and function. The LT $\alpha$ /LT $\beta$ R receptor system may also have some function in early embryogenesis.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	<i>E. coli</i> expressed extracellular domain of mouse lymphotoxin beta receptor
<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 PE/Cyanine7 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="#">FC - Quality tested</a>
<b>Recommended Usage</b>	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 $\mu$ g per million cells in 100 $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Additional Product Notes</b>	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact <a href="#">Technical Service</a> if you have any questions.
<b>Product Citations</b>	1. Kwok T, <i>et al.</i> 2022. Front Aging. 3:838943. <a href="#">PubMed</a> 2. Liu W, <i>et al.</i> 2022. J Clin Invest. .: <a href="#">PubMed</a>
<b>RRID</b>	AB_2728152 (BioLegend Cat. No. 134409) AB_2728153 (BioLegend Cat. No. 134410)

### Antigen Details

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<b>Distribution</b>	Expressed on stromal cells, monocytes, and certain embryonic epithelial layers.
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<b>Function</b>	LT $\beta$ R is involved in peripheral lymphoid tissue organogenesis and function. The LT $\alpha$ /LT $\beta$ R receptor system may also have some function in early embryogenesis.
<b>Ligand/Receptor</b>	LT $\alpha$ 1 $\beta$ 2 and LIGHT
<b>Cell Type</b>	Embryonic Stem Cells, Epithelial cells, Monocytes
<b>Biology Area</b>	Immunology, Stem Cells
<b>Molecular Family</b>	Adhesion Molecules, Cytokine/Chemokine Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Force WR, <i>et al.</i> 1995. <i>J. Immunol.</i> 155:5280</li> <li>2. Tamada K, <i>et al.</i> 2000. <i>J. Immunol.</i> 164:4105</li> <li>3. Browing JL, <i>et al.</i> 1997. <i>J. Immunol.</i> 159:3288</li> <li>4. Futterer A, <i>et al.</i> 1998. <i>Immunity</i> 9:59</li> <li>5. Nakamura T, <i>et al.</i> 1995. <i>Genomics</i> 30:312</li> <li>6. Crowe P, <i>et al.</i> 1996. <i>Science</i> 264:707</li> <li>7. Dejardin E, <i>et al.</i> <i>Immunity</i> 2002. 17(4):525</li> </ol>
<b>Gene ID</b>	<a href="#">17000</a>

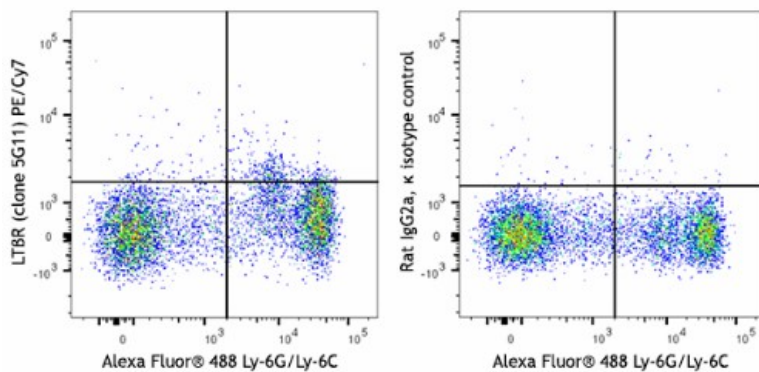
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse lymphotoxin beta receptor (LT $\beta$ R), PE anti-mouse lymphotoxin beta receptor (LT $\beta$ R), PE/Cyanine7 anti-mouse lymphotoxin beta receptor (LT $\beta$ R), APC anti-mouse lymphotoxin beta receptor (LT $\beta$ R)

## Product Data



C57BL/6 bone marrow cells were stained with Alexa Fluor<sup>®</sup> 488 Ly-6G/Ly-6C and PE/Cyanine7 anti-mouse lymphotoxin beta receptor (left) or PE/Cyanine7 rat IgG2a,  $\kappa$  isotype control (right).

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