

## PE/Cyanine5 anti-mouse CD137 Antibody

<b>Catalog# / Size</b>	106123 / 25 µg 106124 / 100 µg
<b>Clone</b>	17B5
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	4-1BB, TNFRSF9, Ly-63, ILA (Induced by Lymphocyte Activation), CD137
<b>Isotype</b>	Syrian Hamster IgG
<b>Description</b>	CD137 is a 39 kD TNF-receptor superfamily member also known as 4-1BB, TNFRSF9, Ly-63, and ILA (Induced by Lymphocyte Activation). CD137 is expressed as monomers, dimers, and tetramers on activated T and B cells. Interaction of CD137 with its ligand, 4-1BBL (CD137L), is important in T-B cell costimulation. The 17B5 antibody has been reported to block 4-1BBL costimulated T cell proliferation.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Syrian Hamster
<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/Cyanine5 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 µg per million cells in 100 µL 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>Application Notes</b>	Additional reported applications (for the relevant formats) include: <i>in vitro</i> blocking of 4-1BB-mediated T cell proliferation <sup>2</sup> . The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 106108).
<b>Application References</b>	1. Lee SW, <i>et al.</i> 2005. <i>J. Immunol.</i> 174:6803. (FC) 2. Zheng G, <i>et al.</i> 2004. <i>J. Immunol.</i> 173:2428. (Block) 3. Zheng H and G. G. Meadows 2005. <i>J. Leukocyte Biol.</i> 78:1070. (FC) <a href="#">PubMed</a> 4. Nishimoto H, <i>et al.</i> 2005. <i>Blood</i> 106:4241. (FC) 5. del Rio ML, <i>et al.</i> 2011. <i>Transpl. Int.</i> 24:501. (FC) <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_3674967 (BioLegend Cat. No. 106123) AB_3674967 (BioLegend Cat. No. 106124)

### Antigen Details

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<b>Structure</b>	TNF-R superfamily, 39 kD
<b>Distribution</b>	Activated T cells and B cells
<b>Function</b>	T-B cell costimulation
<b>Ligand/Receptor</b>	4-1BB ligand (CDw137L)
<b>Cell Type</b>	B cells, T cells, Tregs
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Alderson MR, <i>et al.</i> 1994. <i>Eur. J. Immunol.</i> 24:2219. 3. Schwarz H, <i>et al.</i> 1996. <i>Blood</i> 87:2839.
<b>Gene ID</b>	<a href="#">21942</a>

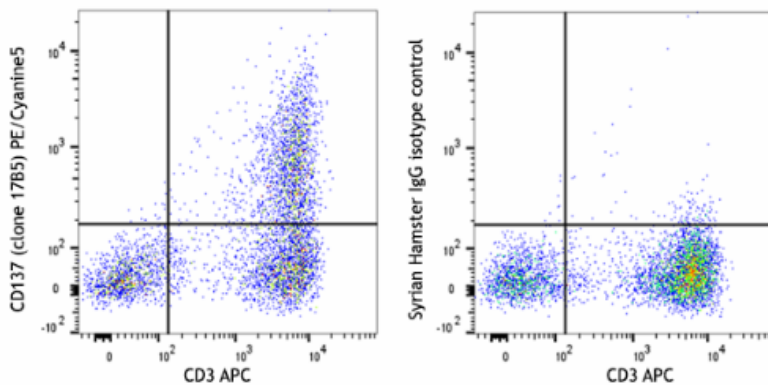
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Biotin anti-mouse CD137, PE anti-mouse CD137, APC anti-mouse CD137, TotalSeq™-A0194 anti-mouse CD137, Ultra-LEAF™ Purified anti-mouse CD137, TotalSeq™-C0194 anti-mouse CD137, TotalSeq™-B0194 anti-mouse CD137, PE/Cyanine5 anti-mouse CD137

## Product Data



Con A + IL-2 stimulated (3 days)  
C57BL/6 splenocytes were stained with anti-mouse CD3 (clone 17A2) APC and anti-mouse CD137 (clone 17B5) PE/Cyanine5 (left) or Syrian Hamster IgG PE/Cyanine5 isotype control (right).

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