

PE/Cyanine7 anti-human CD258 (LIGHT) Antibody

Catalog# / Size	318707 / 25 tests 318708 / 100 tests
Clone	T5-39
Regulatory Status	RUO
Other Names	LIGHT, TL5, TNFSF14, TR2 ligand, Ligand for herpesvirus entry mediator, tumor necrosis factor receptor-like-2 ligand, tumor necrosis factor ligand superfamily member 14 (TNFSF14)
Isotype	Mouse IgG2b, κ
Description	The T5-39 antibody recognizes human LIGHT (CD258) also known as ligand for herpesvirus entry mediator, tumor necrosis factor receptor-like-2 ligand, TR2 ligand, and tumor necrosis factor ligand superfamily member 14 (TNFSF14). LIGHT is a type 2 transmembrane protein, and a member of the tumor necrosis factor ligand superfamily. LIGHT can be proteolytically cleaved and two isoforms have been shown to be produced by alternative splicing. The apparent molecular weight of LIGHT is approximately 30 kD. LIGHT expression has been observed in spleen, brain and kidney; expression is upregulated on activated T cells (particularly CD8 ⁺ cells). LIGHT stimulates proliferation of T cells and inhibits growth of some tumor cells. This protein has been shown to play a role in intestinal inflammation and contribute to IgA nephropathy. LIGHT is a ligand for HVEM, and LT β R and has also been shown to bind DcR3 and modulate function. In addition, LIGHT has been shown to interact with other proteins including TRAF2, TRAF3, and DIABLO. The T5-39 antibody has been shown to be useful for flow cytometry and ELISA.

Product Details

Verified Reactivity	Human
Reported Reactivity	Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	recombinant human LIGHT (TL5) protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	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 Technical Service if you have any questions.
RRID	AB_2721659 (BioLegend Cat. No. 318707) AB_2721660 (BioLegend Cat. No. 318708)

Antigen Details

Structure	Type 2 transmembrane protein, member of the tumor necrosis factor ligand superfamily. Can be proteolytically cleaved; two isoforms produced by alternative splicing. Apparent molecular weight approximately 30 kD.
Distribution	Spleen, brain and kidney. Upregulated on activated T cells (particularly CD8 ⁺ cells)
Function	Stimulates proliferation of T cells, inhibits growth of some tumor cells. Has been shown to play a role in intestinal inflammation and contribute to IgA nephropathy
Interaction	TRAF2, TRAF3, DIABLO
Ligand/Receptor	Ligand for HVEM, LTβR. Has also been shown to bind DcR3
Cell Type	T cells
Biology Area	Cell Biology, Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	<ol style="list-style-type: none">1. Mauri DN, <i>et al.</i> 1998. <i>Immunity</i> 8:21.2. Harrop JA, <i>et al.</i> 1998. <i>J. Biol. Chem.</i> 273:27548.3. Morel Y, <i>et al.</i> 2000. <i>J. Immunol.</i> 165:4397.4. Wang J, <i>et al.</i> 2004. <i>J. Clin. Invest.</i> 113:826.5. Yu P, <i>et al.</i> 2004. <i>Nature Immunol.</i> 5:141.
Gene ID	8740

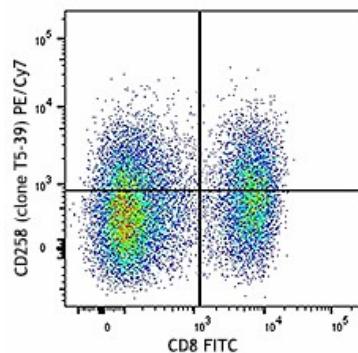
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

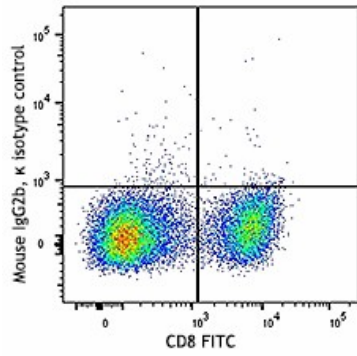
Other Formats

Biotin anti-human CD258 (LIGHT), PE anti-human CD258 (LIGHT), PE/Cyanine7 anti-human CD258 (LIGHT), APC anti-human CD258 (LIGHT), TotalSeq™-C1056 anti-human CD258 (LIGHT), TotalSeq™-D1056 anti-human CD258 (LIGHT), TotalSeq™-B1056 anti-human CD258 (LIGHT)

Product Data



PMA/ionomycin-stimulated (day-2) human peripheral blood lymphocytes stained with CD8 FITC and CD258/LIGHT (clone T5-39) PE/Cyanine7 (filled histogram) or mouse IgG2b, ? PE/Cyanine7 isotype control (open histogram).



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