

Product Data Sheet

LEAF™ Purified anti-mouse/human CD258 (LIGHT)

Catalog # / Size: 137103 / 50 µg
137104 / 500 µg

Clone: 15B2

Isotype: Mouse IgG1, κ

Immunogen: Recombinant extracellular domain of murine LIGHT

Reactivity: Mouse, Human¹

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: ELISA *Quality tested* Block, IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA. For ELISA, the suggested use of this reagent is 10 µg/ml. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for relevant formats) include: *in vivo* blocking of LIGHT activity in a DSS-induced acute intestinal inflammation model¹; *in vitro* blocking of the LIGHT-induced expression of CXCL8/CXCL2 by BFS-1 and A375 cells¹, and immunoprecipitation¹.

Application References: 1. Jungbeck M, *et al.* 2009. *J. Immunol.* 128:451.

Description: CD258, also known as LIGHT, belongs to the tumor necrosis factor (TNF) superfamily. CD258 is a homotrimer composed of type II single-pass chains. The cleavage of this molecule from the cell surface results in a soluble form of LIGHT. CD258 stimulates T cell proliferation, CTL activity, Th1 cytokine production and induces apoptosis in some tumor lines. CD258 is expressed by T cells, NK cells, macrophages and platelets. The receptors of LIGHT are HVEM, LTβR and DCR3. CD258 has an important role in the cell-mediated immune response and in graft versus host disease.

Antigen References: 1. Tama K, *et al.* 2000. *Nat. Med.* 6:283.
2. Cohavey O, *et al.* 2005. *J. Immunol.* 174:646.
3. Madge LA, *et al.* 2008. *J. Immunol.* 180:3467.

Related Products:	Product	Clone	Application
	RBC Lysis Buffer (10X)		FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA



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