

For Research Use Only

# FcZero-rAb® CoraLite® Plus 488 Anti-Human LIGHT/CD258 Rabbit Recombinant Antibody

Catalog Number: CL488-FcA98063



## Basic Information

Catalog Number:

CL488-FcA98063

Concentration:

100tests, 5 ul/test

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG32095

GenBank Accession Number:

NM\_003807

GeneID (NCBI):

8740

UNIPROT ID:

O43557

Full Name:

tumor necrosis factor (ligand) superfamily, member 14

Calculated MW:

26KD

Purification Method:

Protein A purification

CloneNo.:

240694D7

Recommended Dilutions:

FC: 5 ul per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : PMA and Ionomycin treated human PBMCs,

## Background Information

LIGHT, also known as TNFSF14, HVEM, or CD258, is a type II transmembrane protein that belongs to the TNF superfamily (PMID: 9462508). It is predominantly expressed in lymphoid tissues and produced by activated T cells and immature dendritic cells (DCs) (PMID: 9462508; 10754304). Through its two primary functional receptors HVEM (TNFRSF14) and lymphotoxin  $\beta$  receptor (LT  $\beta$  R), LIGHT signaling is involved in development and maintenance of lymphoid tissues, as well as innate and adaptive immune responses (PMID: 24575096; 26720335). In addition to the membrane form, LIGHT can also exist as a soluble form generated by cleavage of the extracellular portion of the membrane form.

## Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:

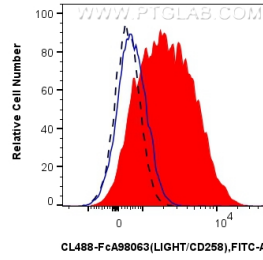
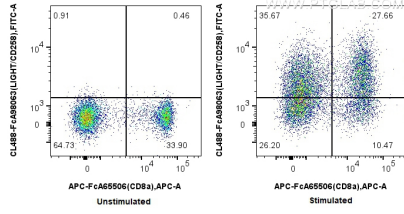
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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## Selected Validation Data



1x10<sup>6</sup> untreated (left) or PMA and Ionomycin treated (right) human PBMCs were surface stained with FcZero-rAb® APC Anti-Human CD8a (OKT8) and 5 ul CoraLite® Plus 488 Anti-Human LIGHT/CD258 Rabbit RecAb (CL488-FcA98063, Clone: 240694D7). Cells were not fixed.

1x10<sup>6</sup> PMA and Ionomycin treated human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human LIGHT/CD258 Rabbit RecAb (CL488-FcA98063, Clone: 240694D7) (red) or FcZero-rAb® CoraLite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-FcA98136, Clone: 240953C9) (blue). 1x10<sup>6</sup> untreated human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human LIGHT/CD258 Rabbit RecAb (CL488-

