Alexa Fluor® 647 Mouse Anti-Human CD258 (LIGHT)

Product Information

Material Number: 564374
Alternate Name: TNFSF14; LIGHT; HVEML; LTg
Size: 50 tests
Vol. per Test: 5 µl
Clone: 115520
Immunogen: Human LIGHT Recombinant Protein
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Workshop: IX
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 115520 monoclonal antibody specifically binds to CD258 which is also known as LIGHT (is homologous to lymphotoxins, exhibits inducible expression, and competes with HSV glycoprotein D for HVEM, a receptor expressed by T lymphocytes). CD258 is also referred to as HVEM-L (Herpes virus entry mediator ligand), and LT-γ. This type II transmembrane glycoprotein belongs to TNF superfamily; it is encoded by TNFSF14 (tumor necrosis factor ligand superfamily member 14). CD258 is expressed by activated T cells and cultured dendritic cells. CD258 can costimulate T cells and antigen presenting cells as well as trigger apoptosis by some cell types. CD258 binds to CD270/LIGHT-R/HVEM and to the Lymphotoxin β Receptor (LTβR). LIGHT reportedly also binds to the decoy receptor (DcR3/TR6).

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

Application Notes

Application

Flow cytometry Routinely Tested

BD Biosciences

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Technical Data Sheet

Alexa Fluor® 647 Mouse Anti-Human CD258 (LIGHT)
Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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Product Notices
1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
3. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
4. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
5. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
6. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
8. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References