

PRODUCT INFORMATION

Target LIGHT

Synonyms TNFSF14;CD258;HVEML;LIGHT;LTg

Recombinant Human LIGHT protein with N-Description

terminal human Fc

Delivery In Stock **Uniprot ID** O43557 **Expression Host HEK293**

Tag N-Human Fc Tag

Molecular

Purity

Background

hFc(Glu99-Ala330) LIGHT(Leu83-Val240) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 43.4 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before Formulation &

lyophilization. Please see Certificate of Analysis Reconstitution for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

The protein encoded by this gene is a member of the tumor necrosis factor (TNF) ligand family. This protein is a ligand for TNFRSF14, which is a member of the tumor necrosis factor receptor superfamily, and which is also known as a betrocyclists entry mediator (HVFM). This protein herpesvirus entry mediator (HVEM). This protein may function as a costimulatory factor for the activation of lymphoid cells and as a deterrent to infection by herpesvirus. This protein has been

shown to stimulate the proliferation of T cells, and trigger apoptosis of various tumor cells. This protein is also reported to prevent tumor necrosis

factor alpha mediated apoptosis in primary hepatocyte. Two alternatively spliced transcript variant encoding distinct isoforms have been

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reported.

Usage Research use only

Conjugate Unconjugated





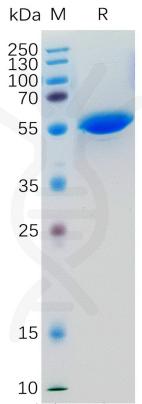


Figure 1. Human LIGHT Protein, hFc Tag on SDS-PAGE under reducing condition.

Human LIGHT, hFc Tagged protein ELISA

0.2 μg of Human HVEM, His Tagged protein per well

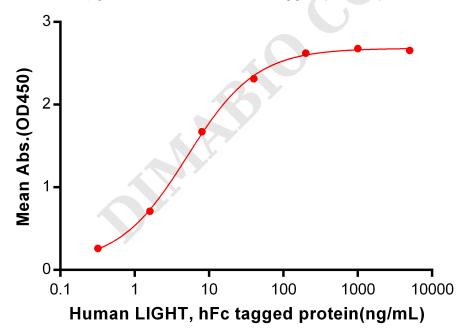


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human HVEM, His tagged protein PME100273 can bind Human LIGHT, hFc tagged protein (PME100049) in a linear range of 0.32-40 ng/ml.

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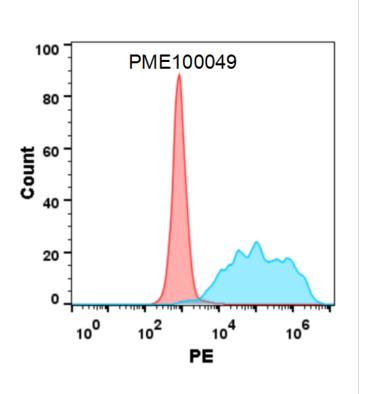


Figure 3. Flow cytometry analysis with 15 μ g/mL Human LIGHT Protein, hFc tag (PME100049) on HEK293 cells transfected with human HVEM (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

Human LIGHT, hFc Tagged protein ELISA

0.2 μg of Human LIGHT, hFc tagged protein per well

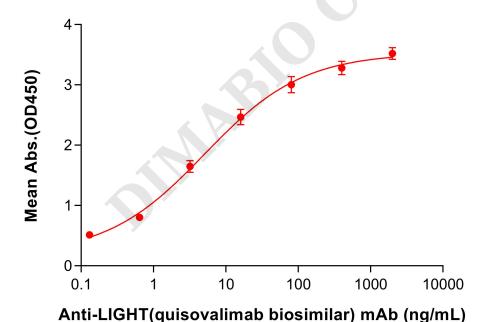


Figure 4. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human LIGHT Protein, hFc Tag (PME100049) can bind Anti-LIGHT(quisovalimab biosimilar) mAb (BME100274) in a linear range of 0.64–16 ng/mL, mouse anti-human Fab-specific antibody was used as detection antibody.

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