

RP01336

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# Recombinant Human TNFSF14/LIGHT/HVEM-L/CD258 Protein

Catalog No.: RP01336 **Recombinant**

## Sequence Information

<b>Species</b>	<b>Gene ID</b>	<b>Swiss Prot</b>
HEK293 cells8740		O43557

### Tags

N-his

### Synonyms

TNFSF14;CD258;HVEM;LIGHT;LTg

## Product Information

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

LIGHT, also known as TNFSF14 or CD258, is a newly identified member of the TNF superfamily (TNFSF14) that is expressed by activated T lymphocytes, monocytes, granulocytes, spleen cells, and immature dendritic cells. TNFSF14 / LIGHT / CD258 is a type II transmembrane protein that is known to bind 2 membrane-bound TNFSF signaling receptors: HVEM, which is predominantly expressed by T cells, and lymphotoxin β receptor (LTβR), which is expressed by stromal cells and nonlymphoid hematopoietic cells. TNFSF14 / LIGHT / CD258 also binds to a soluble non-signaling receptor, decoy receptor 3 (DcR3), which can modulate the function of LIGHT in vivo. TNFSF14 / LIGHT / CD258 can also costimulate T cell responses via HVEM, which is constitutively expressed in most lymphocyte subpopulations, including CD4+ and CD8+ T cells. In addition, TNFSF14 / LIGHT / CD258 has been shown to suppress tumor formation in vivo and to induce tumor cell apoptosis via the up-regulation of intercellular adhesion molecule 1 and an increased lymphocyte adhesion to cancer cells. Thus, TNFSF14 / LIGHT / CD258 is being actively investigated as a possible basis for cancer treatment.

## Basic Information

### Description

Recombinant Human TNFSF14/LIGHT/HVEM-L/CD258 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp74-Val240) of Human TNFSF14 (Accession #NP\_003798.2) fused with a 6×His tag at the N-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human TNFSF14 at 2 μg/mL (100 μL/well) can bind Mouse HVEM with a linear range of 0.02-0.89 μg/mL.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

### Storage

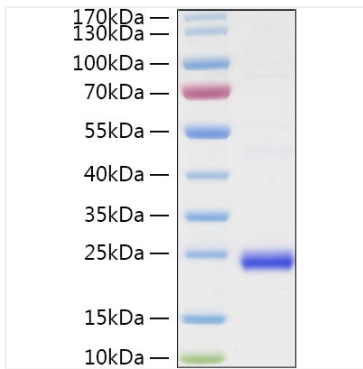
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

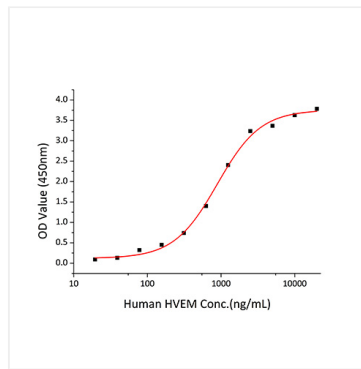
Avoid repeated freeze/thaw cycles.

\* For your safety and health, please wear a lab coat and disposable gloves when handling.

## Validation Data



Recombinant Human TNFSF14/LIGHT/HVEM-L/CD258 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human TNFSF14 at 2  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind Mouse HVEM with a linear range of 0.02-0.89  $\mu\text{g/mL}$ .