

For Research Use Only

Recombinant Mouse LIGHT/CD258 protein (rFc Tag)

Catalog Number: Eg2654



Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse LIGHT protein Asp72-Val239 (Accession# Q9QYH9) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

50930

Accession:

Q9QYH9

Predicted Molecular Mass:

44.4 kDa

SDS-PAGE:

45-55 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

TNFSF14 is a cytokine that plays a crucial role in T cell activation and the generation of cytotoxic T cells. It is also involved in the promotion of tumor metastasis and has potential applications in immunotherapy. Tnfsf14 is a member of the tumor necrosis factor (TNF) ligand family. It is a ligand for TNFRSF14, which is also known as a 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. It has been shown to stimulate the proliferation of T cells and trigger apoptosis of various tumor cells. Mouse models have been used to study the function of Tnfsf14 in various disease states, and its human ortholog TNFSF14 is a promising candidate for the development of therapeutic strategies for cancer and autoimmune diseases.

References

1. Zhang N, Liu X, et al. (2023) Mol Ther. 31(9):2575-2590.
2. Wu Y, Zhan S, Chen L, et al. (2023) J Transl Med. 21(1):544.
3. Oranger A, Colaianni G, et al. (2024) Int J Mol Sci. 25(2):716.
4. Shi JW, Lai ZZ, et al. (2024) EMBO J. 43(21):5018-5036.

Synonyms

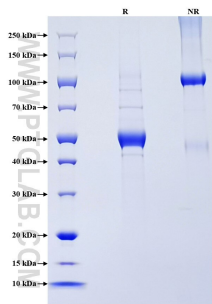
CD258, Light, Tnfsf14, Tumor necrosis factor ligand superfamily member 14, Tumor necrosis factor ligand superfamily member 14, membrane form

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

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Selected Validation Data



Purity of Recombinant Mouse LIGHT was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.