

For Research Use Only

Recombinant Mouse LAIR1 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg2581

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
>90%, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90%, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse LAIR1 protein Gln22-Tyr141 (Accession# Q8BG84-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
52855

Accession:
Q8BG84-1

Predicted Molecular Mass:
39.8 kDa

SDS-PAGE:
42-60 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

Leukocyte-associated immunoglobulin-like receptor 1 (LAIR1) is a transmembrane glycoprotein with a single immunoglobulin-like domain and a cytoplasmic tail containing two immune receptor tyrosine-based inhibitory motifs. LAIR1 is expressed on the majority of PBMCs, including NK, T, B, monocytes, and dendritic cells, as well as the majority of thymocytes. It functions as an inhibitory receptor that plays a constitutive negative regulatory role on cytolytic function of NK cells, B cells and T cells. LAIR1 is a collagen receptor. Tumor-expressed collagens can modulate immune cell function through the inhibitory collagen receptor LAIR1.

References

1. L Meyaard, et al. (1997) Immunity. 7(2):283-90.
2. L Meyaard, et al. (1999) J Immunol. 162(10):5800-4.
3. Robert Jan Lebbink, et al. (2006) J Exp Med. 203(6):1419-25.
4. Tomasz P Rygiel, et al. (2011) Mol Immunol. 49(1-2):402-6.

Synonyms

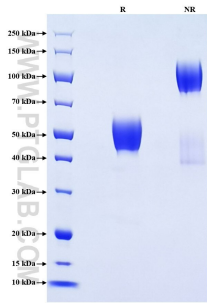
CD305, LAIR-1, Leukocyte-associated immunoglobulin-like receptor 1, mLAIR1

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

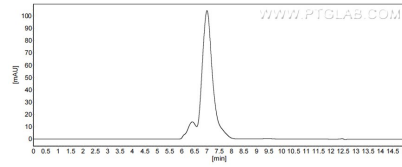
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Purity of Recombinant Mouse LAIR1 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.



The purity of Mouse LAIR1 was greater than 90% as determined by SEC-HPLC.