

Recombinant Mouse LAIR-1/CD305 Protein

Catalog No.: RP02669

Sequence Information

Species **Gene ID**
Mouse 52855

Swiss Prot **Tags**
Q8BG84-1 C-His

Synonyms
CD305; HLAIR1; LAIR1; LAIR-1

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 Tris-Bis PAGE; ≥
 95 % as
 determined by
 HPLC.

Calculated MW **Observed MW**
14.6 kDa 30-42 kDa

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

Formulation

Reconstitution

Centrifuge the tube 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.

Background

LAIR1 (leukocyte-associated Ig-like receptor-1, designated CD305) is an approximately 40 kDa type I transmembrane inhibitory glycoprotein belonging to the Ig superfamily. LAIR1 functions as an inhibitory receptor that plays a constitutive negative regulatory role on cytolytic function of natural killer (NK) cells, B-cells and T-cells. Activation by Tyr phosphorylation results in recruitment and activation of the phosphatases PTPN6 and PTPN11. It also reduces the increase of intracellular calcium evoked by B-cell receptor ligation.

Basic Information

Description

Recombinant Mouse LAIR-1/CD305 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln22-Tyr141) of mouse LAIR-1/CD305 (Accession #Q8BG84-1) fused with His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

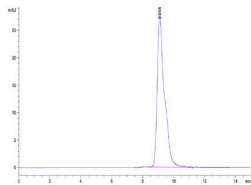
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☎ | 400-999-6126

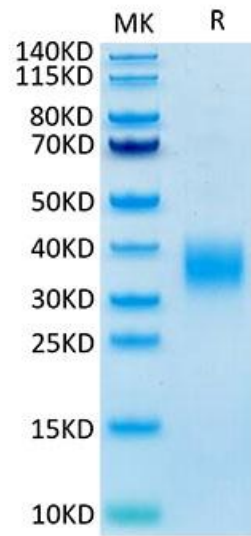
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Validation Data



The purity of Mouse LAIR1 is greater than 95% as determined by SEC-HPLC.



Recombinant Mouse LAIR-1/CD305 Protein was determined by Tris-Bis PAGE under reducing conditions.