Human LAIR1/CD305 Protein

Cat. No. LAI-HM2R1



| Description | |
|---------------------|--|
| Source | Recombinant Human LAIR1/CD305 Protein is expressed from HEK293 with hFc tag at the C-Terminus. |
| | It contains Gln22-His163. |
| Accession | Q6GTX8-1 |
| Molecular Weight | The protein has a predicted MW of 42.4 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per μg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

Formulation and Storage

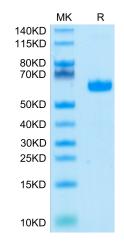
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
|----------------|---|
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

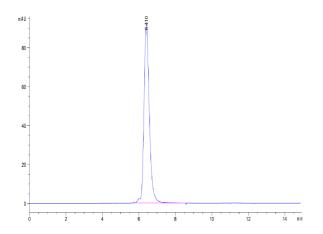
Assay Data

Bis-Tris PAGE



Human LAIR1 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC



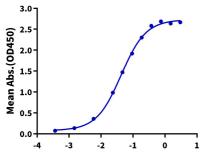
The purity of Human LAIR1 is greater than 95% as determined by SEC-HPLC.

KAGTUS

Assay Data

ELISA Data

Human LAIR1, hFc Tag ELISA 0.2μg Human LAIR1, hFc Tag Per Well

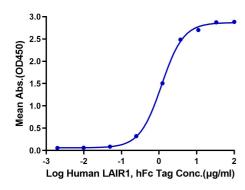


Log Biotinylated Anti-LAIR1 Antibody, hFc Tag Conc.(µg/ml)

Immobilized Human LAIR1, hFc Tag at $2\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Biotinylated Anti-LAIR1 Antibody, hFc Tag with the EC50 of 42.6ng/ml determined by ELISA (QC Test).

ELISA Data

Human LAIR1, hFc Tag ELISA 0.2μg Human Collagen I, No Tag Per Well



Immobilized Human Collagen I, No Tag at $2\mu g/ml$ (50 $\mu l/well$) on the plate. Dose response curve for Human LAIR1, hFc Tag with the EC50 of 1.17 $\mu g/ml$ determined by ELISA.