Human LAIR1/CD305 Protein

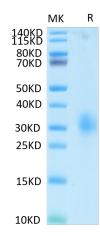
Cat. No. LAI-HM4R1

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Description	
Source	Recombinant Human LAIR1/CD305 Protein is expressed from HEK293 with His tag and Avi tag at the C- Terminus.
	It contains GIn22-His163.
Accession	Q6GTX8-1
Molecular Weight	The protein has a predicted MW of 18.2 kDa. Due to glycosylation, the protein migrates to 30-36 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 Iyophilization.
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.

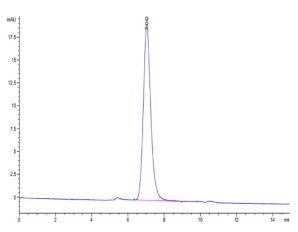
Assay Data

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.

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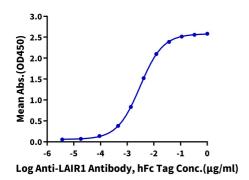
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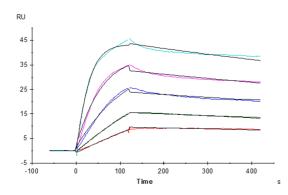
ELISA Data

SPR Data

Human LAIR1, His Tag ELISA 0.05μg Human LAIR1, His Tag Per Well



Immobilized Human LAIR1, His Tag at 0.5μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-LAIR1 Antibody, hFc Tag with the EC50 of 3.0ng/ml determined by ELISA (QC Test).



Human LAIR1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Native Human Collagen I protein with an affinity constant of 0.082 nM as determined in SPR assay (Biacore T200).

