

Product datasheet

Recombinant Human LAIR1 protein (Tagged) ab271585

[2 Images](#)

Description

| | |
|-------------------------------------|--|
| Product name | Recombinant Human LAIR1 protein (Tagged) |
| Purity | >= 90 % SDS-PAGE. |
| Expression system | HEK 293 cells |
| Accession | <u>NM_002287</u> |
| Protein length | Protein fragment |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |
| Predicted molecular weight | 19 kDa including tags |
| Molecular weight information | Protein runs at higher than predicted MW on SDS-PAGE due to glycosylation. |
| Amino acids | 22 to 165 |
| Tags | His tag C-Terminus , Avi tag C-Terminus |

Specifications

Our **Abpromise guarantee** covers the use of **ab271585** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|---------------------|---|
| Applications | SDS-PAGE Size Exclusion Chromatography |
| Form | Liquid |

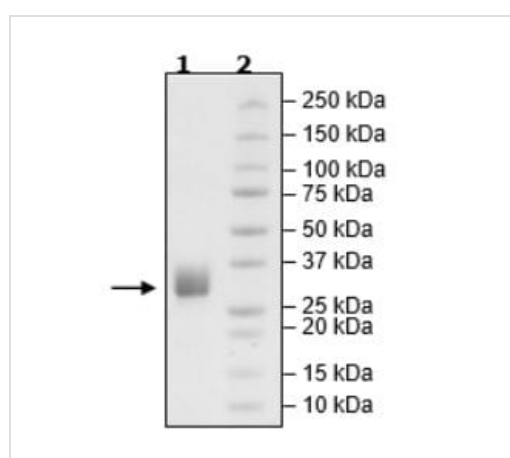
Preparation and Storage

| | |
|------------------------------|---|
| Stability and Storage | Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituents: 0.13% Sodium phosphate, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine) |
|------------------------------|---|

General Info

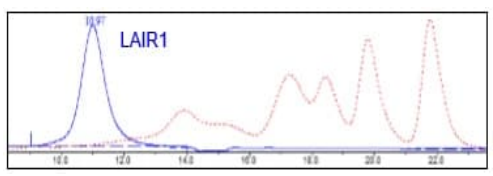
| | |
|---|--|
| Function | Functions as an inhibitory receptor that plays a constitutive negative regulatory role on cytolytic function of natural killer (NK) cells, B-cells and T-cells. Activation by Tyr phosphorylation results in recruitment and activation of the phosphatases PTPN6 and PTPN11. It also reduces the increase of intracellular calcium evoked by B-cell receptor ligation. May also play its inhibitory role independently of SH2-containing phosphatases. Modulates cytokine production in CD4+ T-cells, downregulating IL2 and IFNG production while inducing secretion of transforming growth factor beta. Down-regulates also IgG and IgE production in B-cells as well as IL8, IL10 and TNF secretion. Inhibits proliferation and induces apoptosis in myeloid leukemia cell lines as well as prevents nuclear translocation of NF-kappa-B p65 subunit/RELA and phosphorylation of I-kappa-B alpha/CHUK in these cells. Inhibits the differentiation of peripheral blood precursors towards dendritic cells. |
| Tissue specificity | Expressed on the majority of peripheral mononuclear cells, including natural killer (NK) cells, T-cells, B-cells, monocytes, and dendritic cells. Highly expressed in naive T-cells and B-cells but no expression on germinal center B-cells. Abnormally low expression in naive B-cells from HIV-1 infected patients. Very low expression in NK cells from a patient with chronic active Epstein-Barr virus infection. |
| Sequence similarities | Contains 1 Ig-like C2-type (immunoglobulin-like) domain. |
| Developmental stage | Complete loss of expression when naive B-cells proliferates and differentiates into Ig-producing plasma cells under in vitro stimulation. |
| Domain | ITIM (immunoreceptor tyrosine-based inhibitor motif) motif is a cytoplasmic motif present in 2 copies in the intracellular part of LAIR1. When phosphorylated, ITIM motif can bind the SH2 domain of several SH2-containing phosphatases, leading to down-regulation of cell activation. |
| Post-translational modifications | Phosphorylation at Tyr-251 and Tyr-281 activates it. May be phosphorylated by LCK. N-glycosylated. |
| Cellular localization | Cell membrane. |

Images



SDS-PAGE - Recombinant Human LAIR1 protein
(Tagged) (ab271585)

SDS-PAGE analysis of ab271585.



SEC analysis of ab271585.

Size Exclusion Chromatography - Recombinant
Human LAIR1 protein (Tagged) (ab271585)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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