

Datasheet for ABIN7319831
LAIR1 Protein (mFc Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	LAIR1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAIR1 protein is labelled with mFc Tag.

Product Details

Purpose:	Recombinant Human Leukocyte-associated Immunoglobulin-like Receptor 1/LAIR1/CD305 (C-mFc)
Sequence:	Gln22-His163
Characteristics:	Recombinant Human Leukocyte-Associated Immunoglobulin-Like Receptor 1 is produced by our Mammalian expression system and the target gene encoding Gln22-His163 is expressed with a mFc tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	LAIR1
Alternative Name:	Leukocyte-associated Immunoglobulin-like Receptor 1/LAIR1/CD305 (LAIR1 Products)
Background:	Background: Leukocyte-Associated Immunoglobulin-Like Receptor 1 (LAIR1) is a single-pass

Target Details

type I membrane protein. LAIR1 expressed on the majority of peripheral mononuclear cells, including natural killer (NK) cells, T-cells, B-cells, monocytes, and dendritic cells, highly in naive T-cells and B-cells. As an inhibitory receptor, LAIR1 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. LAIR1 plays inhibitory role independently of SH2-containing phosphatases and modulates cytokine production in CD4+ T-cells. It down-regulates IL2 and IFNG production while inducing secretion of transforming growth factor beta, also down-regulates IgG and IgE production in B-cells as well as IL8, IL10 and TNF secretion. LAIR1 inhibits the differentiation of peripheral blood precursors towards dendritic cells. It also restrains 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.

Synonym: Leukocyte-Associated Immunoglobulin-Like Receptor 1, LAIR-1, hLAIR1, CD305, LAIR1

Molecular Weight:	41.8 kDa
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UniProt:	Q6GTX8
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Application Details

Restrictions:	For Research Use only
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Handling

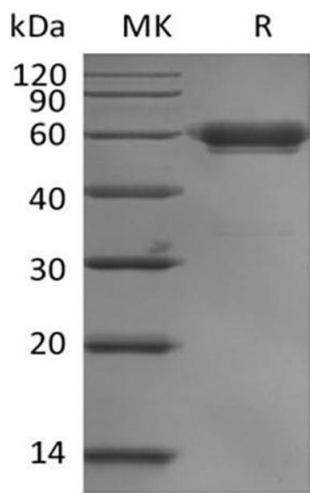
Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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Western Blotting

Image 1.