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LAIR1 Protein (AA 22-287) (rho-1D4 tag)



Image



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Overview

Characteristics:

Quantity:	1 mg
Target:	LAIR1
Protein Characteristics:	AA 22-287
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAIR1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	QEEDLPRPSI SAEPGTVIPL GSHVTFVCRG PVGVQTFRLE RESRSTYNDT EDVSQASPSE
	SEARFRIDSV SEGNAGPYRC IYYKPPKWSE QSDYLELLVK ETSGGPDSPD TEPGSSAGPT
	QRPSDNSHNE HAPASQGLKA EHLYILIGVS VVFLFCLLLL VLFCLHRQNQ IKQGPPRSKD
	EEQKPQQRPD LAVDVLERTA DKATVNGLPE KDRETDTSAL AAGSSQEVTY AQLDHWALTQ
	RTARAVSPQS TKPMAESITY AAVARH
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn | International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com | Page 1/4 | Product datasheet for ABIN3115628 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

to ensure crystallization grade.

• Made in Germany - from design to production - by highly experienced protein experts.

• Human LAIR1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process

This protein is a made to order protein and will be made for the first time for your order. Our

experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin-free.

Grade:

Crystallography grade

Target Details

Target: LAIR1

Alternative Name:

LAIR1 (LAIR1 Products)

Target Details

Background:

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, down-regulating 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. {ECO:0000269|PubMed:10229813, ECO:0000269|PubMed:10764762, ECO:0000269|PubMed:11069054, ECO:0000269|PubMed:11160222, ECO:0000269|PubMed:15950745, ECO:0000269|PubMed:15939744, ECO:0000269|PubMed:15950745, ECO:0000269|PubMed:16380958, ECO:0000269|PubMed:9285412, ECO:0000269|PubMed:9692876}.

Molecular Weight:

30.4 kDa Including tag.

UniProt:

Q6GTX8

Application Details

Application	Notes:
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In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.

Comment:

In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

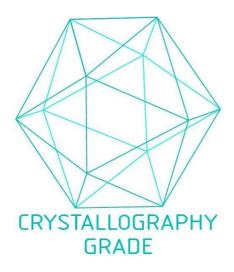


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process