antibodies.com

Datasheet for ABIN3097104 KLRC2 Protein (AA 1-231) (Strep Tag)





Overview

Quantity:	1 mg
Target:	KLRC2
Protein Characteristics:	AA 1-231
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLRC2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MNKQRGTFSE VSLAQDPKRQ QRKPKGNKSS ISGTEQEIFQ VELNLQNPSL NHQGIDKIYD
	CQGLLPPPEK LTAEVLGIIC IVLMATVLKT IVLIPFLEQN NFSPNTRTQK ARHCGHCPEE
	WITYSNSCYY IGKERRTWEE SLLACTSKNS SLLSIDNEEE MKFLASILPS SWIGVFRNSS
	HHPWVTINGL AFKHKIKDSD NAELNCAVLQ VNRLKSAQCG SSMIYHCKHK L
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification. These proteins are normally active (enzymatically functional) as our customers have

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 ABIN3097104 | 04/17/2024 | Copyright antibodies-online. All rights reserved. reported (not tested by us and not guaranteed).

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

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.

Expression System:

• ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for
protein production are removed, leaving only the protein production machinery and the
mitochondria to drive the reaction. During our lysate completion steps, the additional
components needed for protein production (amino acids, cofactors, etc.) are added to
produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System
	(ALICE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag
	capture material. Eluate fractions are analyzed by SDS-PAGE.
	2. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and
	Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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 2/4 | Product datasheet for ABIN3097104 | 04/17/2024 | Copyright antibodies-online. All rights reserved.

Product Details

Grade:

Crystallography grade

Target Details

Target:	KLRC2
Alternative Name:	KLRC2 (KLRC2 Products)
Background:	NKG2-C type II integral membrane protein (CD159 antigen-like family member C) (NK cell
	receptor C) (NKG2-C-activating NK receptor) (CD antigen CD159c),FUNCTION: Immune
	activating receptor involved in self-nonself discrimination. In complex with KLRD1 on cytotoxic
	lymphocyte subsets, recognizes non-classical major histocompatibility (MHC) class Ib HLA-E
	loaded with signal sequence-derived peptides from non-classical MHC class Ib HLA-G
	molecules, likely playing a role in the generation and effector functions of adaptive natural kille
	(NK) cells and in maternal-fetal tolerance during pregnancy (PubMed:9754572,
	PubMed:30134159, PubMed:37264229). Regulates the effector functions of terminally
	differentiated cytotoxic lymphocyte subsets, and in particular may play a role in adaptive NK
	cell response to viral infection (PubMed:21825173, PubMed:20952657). Upon HLA-E-peptide
	binding, transmits intracellular signals via the adapter protein TYROBP/DAP12, triggering the
	phosphorylation of proximal signaling molecules and cell activation (PubMed:9655483,
	PubMed:15940674). {ECO:0000269 PubMed:15940674, ECO:0000269 PubMed:20952657,
	EC0:0000269 PubMed:21825173, EC0:0000269 PubMed:30134159,
	EC0:0000269 PubMed:37264229, EC0:0000269 PubMed:9655483,
	EC0:0000269 PubMed:9754572}.
Molecular Weight:	26.2 kDa
JniProt:	P26717
Application Details	

Application Notes:	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 guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for

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 3/4 | Product datasheet for ABIN3097104 | 04/17/2024 | Copyright antibodies-online. All rights reserved.

Application Details		
	protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

Images

Storage Comment:



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

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 4/4 | Product datasheet for ABIN3097104 | 04/17/2024 | Copyright antibodies-online. All rights reserved.