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Datasheet for ABIN3113115
ITGAL Protein (AA 26-1170) (rho-1D4 tag)

Overview

Quantity:	1 mg
Target:	ITGAL
Protein Characteristics:	AA 26-1170
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITGAL protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	YNLDVRGARS FSPPRAGRHF GYRVLQVGNG VIVGAPGEGN STGSLYQCQS GTGHCLPVTL RGSNYTSKYL GMTLATDPTD GSILACDPGL SRTCDQNTYL SGLCYLFRQN LQGPM LQGRP GFQECIKGNV DLVFLFDGSM SLQPDEFQKI LDFMKDVMKK LSNTSYQFAA VQFSTSYKTE FDFSDYVKRK DPDALLKHVK HMLLLTNTFG AINYVATEVF REELGARPDA TKVLIITDG EATDSGNIDA AKDIIRYIIG IGKHFQTKES QETLHKFASK PASEFVKILD TFEKLDLFT ELQKKIYVIE GTSKQDLTSF NMELSSSGIS ADLSRGHAVV GAVGAKDWAG GFLDLKADLQ DDTFIGNEPL TPEVRAGYLG YTVTWLPSRQ KTSLLASGAP RYQHMGRVLL FQEPQGGGHW SQVQTIHGTQ IGSYFGGELC GVDVDQDGET ELLIGAPLF YGEQRGGRVF IYQRRQLGFE EVSELQGDGP YPLGRFGEAI TALTDINGDG LVDVAVGAPL EEQGA VYIFN GRHGGLSPQP SQRIEGTQVL SGIQWFGRSI HGVKDLEGDG LADVAVGAES QMIVLSSRPV VDMVTLM SFS PAEIPVHEVE CSYSTSNKMK EGVNITICFQ IKSLIPQFQG RLVANLTYTL QLDGHRTRRR GLFPGGRHEL RRNIAVTTSM SCTDFS FHP VCVQDLISPI NVSLNFSLWE EEGTPRDQRA QGKDIPPILR
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PSLHSETWEI PFEKNCGEDK KCEANLRVSF SPARSRALRL TAFASLSVEL SLSNLEEDAY
WVQLDLHFPP GLSFRKVEML KPHSQIPVSC EELPEESRLL SRALSCNVSS PIFKAGHSVA
LQMMFNTLVN SSWGDSVELH ANVTCNNEDS DLEDNSATT IIPILYPINI LIQDQEDSTL
YVSFTPKGPK IHQVKHMYQV RIQPSIHDHN IPTLEAVVGV PQPPSEGPIT HQWSVQMEPP
VPCHYEDLER LPDAAEPCLP GALFRCPVVF RQEILVQVIG TLELVGEIEA SSMFSLCSSL
SISFNSSKHF HLYGSNASLA QVVMKVDVYVY EKQMLYLYVL SGIGLLLLLL LIFIVLYKVG
FFKRNLKEKM EAGRGPNGI PAEDSEQLAS GQEAGDPGCL KPLHEKDSSES GGGKD

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human ITGAL Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

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 receipt 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 fractionated 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

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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: ITGAL

Alternative Name: ITGAL ([ITGAL Products](#))

Background: Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. It is involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes.

Molecular Weight: 127.3 kDa Including tag.

UniProt: [P20701](#)

Pathways: [Activated T Cell Proliferation](#), [Integrin Complex](#)

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