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Datasheet for ABIN3130808

## ITGA8 Protein (AA 36-1010) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	ITGA8
Protein Characteristics:	AA 36-1010
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITGA8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence: LAFNLDVDKL TVYSGPEGSY FGYSLDFYIP DARTASVLVG APKANTSQPD IVEGGAVYYC  
PWPSERSAQC KQIPFDTTNN RKIRVNGTKE PIEFKSNQWF GATVRAHKGK WVACAPLYHW  
RTLKPNPAKD PVGTCYVAIQ NFSAYAEHSP CRNSNADPEG QGYCQAGFSL DFYKNGDLIV  
GGPGSFYWQG QVITVSIADI IANYSFKDIL RKLAAEKQTD VAPASYDDSY LGYSVAAGEF  
TGDSQQELVA GIPRGAQNFG YVSIINSTDM TFIQNFTGEQ MASYFGYTVV VSDVNNDGMD  
DILVGAPLFM EREFESNPRES VGQVYLYLQA SALLFQDPQV LTGTETFGRF GSSVAHLGDL  
NQDGYNDIAI GVPFAGKDQR GKVLINNGNP RGLHSHKPSQV LQGIWGSQTI PSGFGFSLRG  
DADIDKNDYP DLLVGAFGKG KVAVYRARPV VTDVAQLLLH PMIINLENKT CQIPEFPTPV  
ACFSVRVCAS IAGQISNTI ALLAEVQLDF LKQKGAIKRT LFLHNNHSHF TFPFVMKQQK  
SLHCQDFMVY LRDETEFRDK LSPINISLNY SLDDSTFKDS LEVKPILNHY RDNVTEQAH  
ILVDCGEDNL CVPDLKLSAR PDKHQIIIGD ENHLMLIINA RNEGEGAYEA ELFVIIPEEA  
DYVGIERNK GLRPLSCEYK MENVTRMVVC DLGNPMVTGT NFSLGLRFVAV PRLEKTNMSI

NFDLQIRSSN KDNPDNSFER VQINITAIAQ VEIRGVSHPP QIVLPIHNWE PEKKPHKEEE  
VGPLVEHIYE LHNIGPSTIS DSILDVGWPF SARDEFLLYI FHLQTLGPLQ CQTNPENPQ  
DIKPAASPED TPELSAFLRN ATIPHLVRKR DVPVVQLHRQ SPARILNCTN IDCLQISCAV  
GRLGGGESAV LKVRSLWAH TFLKRKNDHY ALASLVSFEV KKMPYKEQPA KLPAGSTAVK  
TSVIWATPNV SFSIP

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

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Itga8 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.

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### Purification:

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

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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.

## Product Details

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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

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Target:	ITGA8
Alternative Name:	Itga8 ( <a href="#">ITGA8 Products</a> )
Background:	<p>Integrin alpha-8/beta-1 functions in the genesis of kidney and probably of other organs by regulating the recruitment of mesenchymal cells into epithelial structures. It recognizes the sequence R-G-D in a wide array of ligands including TNC, FN1, SPP1 TGFB1, TGFB3 and VTN. NPNT is probably its functional ligand in kidney genesis. Neuronal receptor for TNC it mediates cell-cell interactions and regulates neurite outgrowth of sensory and motor neurons.</p> <p>{ECO:0000269 PubMed:10742111, ECO:0000269 PubMed:11470831, ECO:0000269 PubMed:11891185, ECO:0000269 PubMed:12787402, ECO:0000269 PubMed:17537792, ECO:0000269 PubMed:9054500, ECO:0000269 PubMed:9548928, ECO:0000269 PubMed:9614184}.</p>
Molecular Weight:	109.1 kDa Including tag.
UniProt:	<a href="#">A2ARA8</a>

## Application Details

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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:	Protein has not been tested for activity yet. 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

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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)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process