antibodies

## Datasheet for ABIN3116851 TIM3 Protein (AA 22-301) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	TIM3 (TIM 3)
Protein Characteristics:	AA 22-301
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TIM3 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

## Product Details

Sequence:	SEVEYRAEVG QNAYLPCFYT PAAPGNLVPV CWGKGACPVF ECGNVVLRTD ERDVNYWTSR
	YWLNGDFRKG DVSLTIENVT LADSGIYCCR IQIPGIMNDE KFNLKLVIKP AKVTPAPTRQ
	RDFTAAFPRM LTTRGHGPAE TQTLGSLPDI NLTQISTLAN ELRDSRLAND LRDSGATIRI
	GIYIGAGICA GLALALIFGA LIFKWYSHSK EKIQNLSLIS LANLPPSGLA NAVAEGIRSE ENIYTIEENV
	YEVEEPNEYY CYVSSRQQPS QPLGCRFAMP
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	• Made in Cormony, from design to production, by highly experienced protein experts
011010101011011001	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> </ul>
	<ul> <li>Made in Germany - from design to production - by highly expended protein expense.</li> <li>Human HAVCR2 Protein (raised in Insect Cells) purified by multi-step, protein-specific</li> </ul>
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	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:
	<ol> <li>Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.</li> <li>The best performing detergent is used for solubilization and the proteins are purified via their</li> </ol>
	rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	<ol> <li>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.</li> </ol>
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:	TIM3 (TIM 3)
Alternative Name:	HAVCR2 (TIM 3 Products)

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Target Type:       Virus         Background:       Cell surface receptor implicated in modulating imate and adaptive immune responses.         Generally accepted to have an inhibiting function. Reports on stimulating functions suggest that the activity may be influenced by the cellular context and/or the respective ligand (PubMed:24825777). Regulates macrophage activation (PubMed:11823861). Inhibits T-helper type 1 (ymphocyte (Th1)-mediated auto- and alloimmune responses and promotes immunological tolerance (PubMed:14556005). In CD#+ cells attenuates TCR induced signaling, specifically by blocking NF-kappaB and NFAT promoter activities resulting in the loss of II-2 secretion. The function may implicate its association with LCK proposed to impair phosphorylation of TCR subunits, and/or LCALS9-dependent recruitment of PIPRC to the immunological synapse (PubMed:24337741, PubMed:26492563). In contrast, shown to activate TCR-induced signaling in T-cells probably implicating ZAP70, LCP2, LCK and FYN (By similarity). Expressed on Treg cells can inhibit Th17 cell responses (PubMed:24838857).         Receptor for LCALS9 (PubMed:1626920, PubMed:24337411). Binding to LCALS9 is believed to result in suppression of T-cell responses, the resulting apoptosis of antigen-specific cells may implicate HAVCR2 phosphorylation and disruption of its association with BAG6. Binding to LCALS9 is proposed to be involved in immate immune response to intracellular pathogens. Expressed on The Cells interacts with LCALS9 expressed on Modobacterium tuberculosis-infected macrophages to stimulate antibactericidal activity including II-1 beta secretion and to restrict intracellular bacterial growth (By similarity). However, the function as receptor for LCALS9 has been challenged (PubMed:23555261). Also reported to enhance CD8+ T-cell responses to an acute infection such as by Listeria monocytogenes (By similarity). Recep	Target Details	
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		ECO:0000269 PubMed:11823861, ECO:0000269 PubMed:14556005,

EC0:0000269|PubMed:16286920, EC0:0000269|PubMed:22323453,

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Target Details		
	ECO:0000269 PubMed:23555261, ECO:0000269 PubMed:24838857,	
	EC0:0000269 PubMed:26492563, EC0:0000305 PubMed:24825777}.	
Molecular Weight:	32.1 kDa Including tag.	
UniProt:	Q8TDQ0	
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Cancer Immune Checkpoints	
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 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.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	



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

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