antibodies

# Datasheet for ABIN3137176 TLR6 Protein (AA 28-795) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	TLR6
Protein Characteristics:	AA 28-795
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TLR6 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	FSNELESMVD YSNRNLTHVP KDLPPRTKAL SLSQNSISEL RMPDISFLSE LRVLRLSHNR
	IRSLDFHVFL FNQDLEYLDV SHNRLQNISC CPMASLRHLD LSFNDFDVLP VCKEFGNLTK
	LTFLGLSAAK FRQLDLLPVA HLHLSCILLD LVSYHIKGGE TESLQIPNTT VLHLVFHPNS
	LFSVQVNMSV NALGHLQLSN IKLNDENCQR LMTFLSELTR GPTLLNVTLQ HIETTWKCSV
	KLFQFFWPRP VEYLNIYNLT ITERIDREEF TYSETALKSL MIEHVKNQVF LFSKEALYSV
	FAEMNIKMLS ISDTPFIHMV CPPSPSSFTF LNFTQNVFTD SVFQGCSTLK RLQTLILQRN
	GLKNFFKVAL MTKNMSSLET LDVSLNSLNS HAYDRTCAWA ESILVLNLSS NMLTGSVFRC
	LPPKVKVLDL HNNRIMSIPK DVTHLQALQE LNVASNSLTD LPGCGAFSSL SVLVIDHNSV
	SHPSEDFFQS CQNIRSLTAG NNPFQCTCEL RDFVKNIGWV AREVVEGWPD SYRCDYPESS
	KGTALRDFHM SPLSCDTVLL TVTIGATMLV LAVTGAFLCL YFDLPWYVRM LCQWTQTRHR
	ARHIPLEELQ RNLQFHAFVS YSEHDSAWVK NELLPNLEKD DIRVCLHERN FVPGKSIVEN
	IINFIEKSYK AIFVLSPHFI QSEWCHYELY FAHHNLFHEG SDNLILILLE PILQNNIPSR

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 ABIN3137176 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	YHKLRALMAQ RTYLEWPTEK GKRGLFWANL RASFIMKLAL VNEDDVKT
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Tlr6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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.
	<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

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 ABIN3137176 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details	
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

#### Target Details

Target:	TLR6
Alternative Name:	TIr6 (TLR6 Products)
Background:	Participates in the innate immune response to Gram-positive bacteria and fungi. Specifically
	recognizes diacylated and, to a lesser extent, triacylated lipopeptides (PubMed:19931471). In
	response to diacylated lipopeptides, forms the activation cluster TLR2:TLR6:CD14:CD36, this
	cluster triggers signaling from the cell surface and subsequently is targeted to the Golgi in a
	lipid-raft dependent pathway. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation,
	cytokine secretion and the inflammatory response. Recognizes mycoplasmal macrophage-
	activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble moduli
	(PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR2
	In complex with TLR4, promotes sterile inflammation in monocytes/macrophages in respons
	to oxidized low-density lipoprotein (oxLDL) or amyloid-beta 42. In this context, the initial signa
	is provided by oxLDL- or amyloid-beta 42-binding to CD36. This event induces the formation o
	a heterodimer of TLR4 and TLR6, which is rapidly internalized and triggers inflammatory
	response, leading to the NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9
	cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, a
	well as IL1B secretion (PubMed:20037584, PubMed:23812099).
	{EC0:0000269 PubMed:19931471, EC0:0000269 PubMed:20037584,
	ECO:0000269 PubMed:23812099}.
Molecular Weight:	89.4 kDa Including tag.
UniProt:	Q9EPW9
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of
	Bacterial Origin, Toll-Like Receptors Cascades
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studie

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.

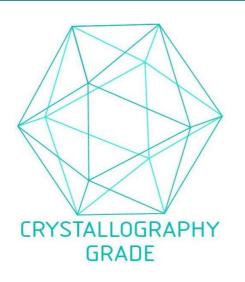
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3137176 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Application Details	
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

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



**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 ABIN3137176 | 09/11/2023 | Copyright antibodies-online. All rights reserved.