antibodies

Datasheet for ABIN3121282 MASP1 Protein (AA 454-704) (His tag)

Image



Overview

Quantity:	1 mg
Target:	MASP1
Protein Characteristics:	AA 454-704
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MASP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	IFNGRPAQKG TMPWIAMLSH LNGQPFCGGS LLGSNWVLTA AHCLHQSLDP EEPTLHSSYL
	LSPSDFKIIM GKHWRRRSDE DEQHLHVKRT TLHPLYNPST FENDLGLVEL SESPRLNDFV
	MPVCLPEQPS TEGTMVIVSG WGKQFLQRFP ENLMEIEIPI VNSDTCQEAY TPLKKKVTKD
	MICAGEKEGG KDACAGDSGG PMVTKDAERD QWYLVGVVSW GEDCGKKDRY GVYSYIYPNK
	DWIQRITGVR N
	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.
	Mouse Masp1 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).

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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:	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.
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
Grade:	Crystallography grade

Target Details

Target:	MASP1
Alternative Name:	Masp1 (MASP1 Products)
Background:	Functions in the lectin pathway of complement, which performs a key role in innate immunity
	by recognizing pathogens through patterns of sugar moieties and neutralizing them. The lectin

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Target Details

	pathway is triggered upon binding of mannan-binding lectin (MBL) and ficolins to sugar
	moieties which leads to activation of the associated proteases MASP1 and MASP2. Functions
	as an endopeptidase and may activate MASP2 or C2 or directly activate C3 the key component
	of complement reaction. Isoform 2 may have an inhibitory effect on the activation of the lectin
	pathway of complement or may cleave IGFBP5. {ECO:0000269 PubMed:18424734}.
Molecular Weight:	29.2 kDa Including tag.
UniProt:	P98064
Pathways:	Complement System
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:	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)



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

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