

Datasheet for ABIN7564785 AIM2 Protein (AA 1-354) (His tag)



Overview

Quantity:	1 mg
Target:	AIM2
Protein Characteristics:	AA 1-354
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AIM2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Aim2 Protein expressed in mammalien cells.
Sequence:	MESEYREMLL LTGLDHITEE ELKRFKYFAL TEFQIARSTL DVADRTELAD HLIQSAGAAS
	AVTKAINIFQ KLNYMHIANA LEEKKKEAER KLMTNTKKRG TQKVENRSQA ENCSAASATR
	SDNDFKEQAA TEVCPQAKPQ KKQMVAEQEA IREDLQKDPL VVTVLKAINP FECETQEGRQ
	EIFHATVATE TDFFFVKVLN AQFKDKFIPK RTIKISNYLW HSNFMEVTSS SVVVDVESNH
	EVPNNVVKRA RETPRISKLK IQPCGTIVNG LFKVQKITEE KDRVLYGIHD KTGTMEVLVL
	GNPSKTKCEE GDKIRLTFFE VSKNGVKIQL KSGPCSFFKV IKAAKPKTDM KSVE Sequence
	without tag. The proposed Purification-Tag is based on experiences with the expression
	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	Key Benefits:

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	 Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalien cells and purified in one-step affinity chromatography The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. 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 try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	AIM2
Alternative Name:	Aim2 (AIM2 Products)
Background:	Interferon-inducible protein AIM2 (Interferon-inducible protein 210) (Ifi-210) (Interferon-inducibl
	protein p210),FUNCTION: Sensor component of the AIM2 inflammasome, which mediates
	inflammasome activation in response to the presence of double-stranded DNA (dsDNA) in the
	cytosol, leading to subsequent pyroptosis (PubMed:19158679, PubMed:19131592,
	PubMed:20351692, PubMed:19158675, PubMed:19158676, PubMed:20351693,
	PubMed:20417169, PubMed:20457908, PubMed:21902795, PubMed:32350463,
	PubMed:34006824, PubMed:23567559). Inflammasomes are supramolecular complexes that
	assemble in the cytosol in response to pathogens and other damage-associated signals and
	play critical roles in innate immunity and inflammation (PubMed:19131592, PubMed:20351692
	PubMed:19158675, PubMed:19158676, PubMed:20351693, PubMed:20417169,
	PubMed:20457908, PubMed:21902795, PubMed:23567559, PubMed:32350463). Acts as a
	recognition receptor (PRR): specifically recognizes and binds dsDNA in the cytosol, and
	mediates the formation of the inflammasome polymeric complex composed of AIM2, CASP1
	and PYCARD/ASC (PubMed:19131592, PubMed:20351692, PubMed:19158675,

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	dephosphorylation by PP2A phosphatase (PubMed:26107252, PubMed:33505023). Also acts
	as a key regulator of regulatory T-cells (Treg) homeostasis by promoting their stability: acts by
	preventing AKT1 activation (PubMed:33505023). Its role in Treg homeostasis is important to
	restain autoimmune diseases (PubMed:33505023). {ECO:0000269 PubMed:26095253,
	ECO:0000269 PubMed:26107252, ECO:0000269 PubMed:33505023}.
Molecular Weight:	40.2 kDa
UniProt:	Q91VJ1
Pathways:	Activation of Innate immune Response, Positive Regulation of Endopeptidase Activity,
	Inflammasome
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.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.