antibodies

Datasheet for ABIN3133768 MMP2 Protein (AA 110-662) (His tag)

Image



Overview

Quantity:	1 mg
Target:	MMP2
Protein Characteristics:	AA 110-662
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	YNFFPRKPKW DKNQITYRII GYTPDLDPET VDDAFARALK VWSDVTPLRF SRIHDGEADI
	MINFGRWEHG DGYPFDGKDG LLAHAFAPGT GVGGDSHFDD DELWTLGEGQ VVRVKYGNAD
	GEYCKFPFLF NGREYSSCTD TGRSDGFLWC STTYNFEKDG KYGFCPHEAL FTMGGNADGQ
	PCKFPFRFQG TSYNSCTTEG RTDGYRWCGT TEDYDRDKKY GFCPETAMST VGGNSEGAPC
	VFPFTFLGNK YESCTSAGRN DGKVWCATTT NYDDDRKWGF CPDQGYSLFL VAAHEFGHAM
	GLEHSQDPGA LMAPIYTYTK NFRLSHDDIK GIQELYGPSP DADTDTGTGP TPTLGPVTPE
	ICKQDIVFDG IAQIRGEIFF FKDRFIWRTV TPRDKPTGPL LVATFWPELP EKIDAVYEAP
	QEEKAVFFAG NEYWVYSAST LERGYPKPLT SLGLPPDVQQ VDAAFNWSKN KKTYIFAGDK
	FWRYNEVKKK MDPGFPKLIA DSWNAIPDNL DAVVDLQGGG HSYFFKGAYY LKLENQSLKS
	VKFGSIKSDW LGC
	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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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Mmp2 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 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:
	 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. 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

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Target:	
-	MMP2
Alternative Name:	Mmp2 (MMP2 Products)
Background:	Ubiquitinous metalloproteinase that is involved in diverse functions such as remodeling of the
	vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, and atherosclerotic
	plaque rupture. As well as degrading extracellular matrix proteins, can also act on several
	nonmatrix proteins such as big endothelial 1 and beta-type CGRP promoting vasoconstriction.
	Also cleaves KISS at a Gly- -Leu bond. Appears to have a role in myocardial cell death pathways
	Contributes to myocardial oxidative stress by regulating the activity of GSK3beta. Cleaves
	GSK3beta in vitro. Involved in the formation of the fibrovascular tissues (By similarity).
	{ECO:0000250}., PEX, the C-terminal non-catalytic fragment of MMP2, posseses anti-
	angiogenic and anti-tumor properties and inhibits cell migration and cell adhesion to FGF2 and
	vitronectin. Ligand for integrin alpha-v/beta-3 on the surface of blood vessels (By similarity).
	{ECO:0000250}., Isoform 2: Mediates the proteolysis of CHUK/IKKA and initiates a primary
	innate immune response by inducing mitochondrial-nuclear stress signaling with activation of
	the pro-inflammatory NF-kappaB, NFAT and IRF transcriptional pathways.
	{EC0:0000269 PubMed:22509276}.
Molecular Weight:	63.1 kDa Including tag.
UniProt:	P33434
Pathways:	Activation of Innate immune Response
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
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
Comment:	
Comment:	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
Comment: Restrictions:	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
	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.

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Handling		
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

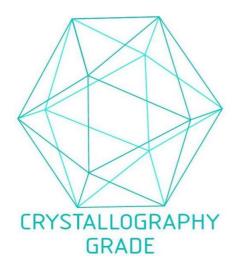


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process