antibodies

Datasheet for ABIN3113782 MMP14 Protein (AA 112-582) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	MMP14
Protein Characteristics:	AA 112-582
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP14 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	YAIQGLKWQH NEITFCIQNY TPKVGEYATY EAIRKAFRVW ESATPLRFRE VPYAYIREGH
	EKQADIMIFF AEGFHGDSTP FDGEGGFLAH AYFPGPNIGG DTHFDSAEPW TVRNEDLNGN
	DIFLVAVHEL GHALGLEHSS DPSAIMAPFY QWMDTENFVL PDDDRRGIQQ LYGGESGFPT
	KMPPQPRTTS RPSVPDKPKN PTYGPNICDG NFDTVAMLRG EMFVFKERWF WRVRNNQVMD
	GYPMPIGQFW RGLPASINTA YERKDGKFVF FKGDKHWVFD EASLEPGYPK HIKELGRGLP
	TDKIDAALFW MPNGKTYFFR GNKYYRFNEE LRAVDSEYPK NIKVWEGIPE SPRGSFMGSD
	EVFTYFYKGN KYWKFNNQKL KVEPGYPKSA LRDWMGCPSG GRPDEGTEEE TEVIIIEVDE
	EGGGAVSAAA VVLPVLLLLL VLAVGLAVFF FRRHGTPRRL LYCQRSLLDK V
	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. Human MMP14 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	Harran Minin - Frieden (raidea in meest dens) parmed by main dtep, protein opeomo prodedo

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Product Details	
	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 cappet be expressed or purified we do not charge anythin

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:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 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. 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.
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:	MMP14
Alternative Name:	MMP14 (MMP14 Products)
Background:	Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. May be involved in actin cytoskeleton reorganization by cleaving PTK7. Acts as a positive regulator of cell growth and migration via activation of MMP15. Involved in the formation of the fibrovascular tissues in association with pro-MMP2. {ECO:0000269 PubMed:12714657, ECO:0000269 PubMed:20837484, ECO:0000269 PubMed:22065321}.
Molecular Weight:	55.0 kDa Including tag.
UniProt:	P50281
Pathways:	Autophagy
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)

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

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