Datasheet for ABIN3118827

MRC2 Protein (AA 31-1479) (rho-1D4 tag)

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Overview

Quantity:	1 mg
Target:	MRC2
Protein Characteristics:	AA 31-1479
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MRC2 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	GAPGDAALPE PNVFLIFSHG LQGCLEAQGG QVRVTPACNT SLPAQRWKWV SRNRLFNLGT MQCLGTGWPG TNTTASLGMY ECDREALNLR WHCRTLGDQL SLLLGARTSN ISKPGTLERG DQTRSGQWRI YGSEEDLCAL PYHEVYTIQG NSHGKPCTIP FKYDNQWFHG CTSTGREDGH LWCATTQDYG KDERWGFCPI KSNDCETFWD KDQLTDSCYQ FNFQSTLSWR EAWASCEQQG ADLLSITEIH EQTYINGLLT GYSSTLWIGL NDLDTSGGWQ WSDNSPLKYL NWESDQPDNP SEENCGVIRT ESSGGWQNRD CSIALPYVCK KKPNATAEPT PPDRWANVKV ECEPSWQPFQ GHCYRLQAEK RSWQESKKAC LRGGGDLVSI HSMAELEFIT KQIKQEVEEL WIGLNDLKLQ MNFEWSDGSL VSFTHWHPFE PNNFRDSLED CVTIWGPEGR WNDSPCNQSL PSICKKAGQL SQGAAEEDHG CRKGWTWHSP SCYWLGEDQV TYSEARRLCT DHGSQLVTIT NRFEQAFVSS LIYNWEGEYF WTALQDLNST GSFFWLSGDE VMYTHWNRDQ PGYSRGGCVA LATGSAMGLW EVKNCTSFRA RYICRQSLGT PVTPELPGPD PTPSLTGSCP QGWASDTKLR YCYKVFSSER LQDKKSWVQA QGACQELGAQ LLSLASYEEE HFVANMLNKI FGESEPEIHE QHWFWIGLNR

RDPRGGQSWR WSDGVGFSYH NFDRSRHDDD DIRGCAVLDL ASLQWVAMQC DTQLDWICKI PRGTDVREPD DSPQGRREWL RFQEAEYKFF EHHSTWAQAQ RICTWFQAEL TSVHSQAELD FLSHNLQKFS RAQEQHWWIG LHTSESDGRF RWTDGSIINF ISWAPGKPRP VGKDKKCVYM TASREDWGDQ RCLTALPYIC KRSNVTKETQ PPDLPTTALG GCPSDWIQFL NKCFQVQGQE PQSRVKWSEA QFSCEQQEAQ LVTITNPLEQ AFITASLPNV TFDLWIGLHA SQRDFQWVEQ EPLMYANWAP GEPSGPSPAP SGNKPTSCAV VLHSPSAHFT GRWDDRSCTE ETHGFICQKG TDPSLSPSPA ALPPAPGTEL SYLNGTFRLL QKPLRWHDAL LLCESRNASL AYVPDPYTQA FLTQAARGLR TPLWIGLAGE EGSRRYSWVS EEPLNYVGWQ DGEPQQPGGC TYVDVDGAWR TTSCDTKLQG AVCGVSSGPP PPRRISYHGS CPQGLADSAW IPFREHCYSF HMELLLGHKE ARQRCQRAGG AVLSILDEME NVFVWEHLQS YEGQSRGAWL GMNFNPKGGT LVWQDNTAVN YSNWGPPGLG PSMLSHNSCY WIQSNSGLWR PGACTNITMG VVCKLPRAEQ SSFSPSALPE NPAALVVVLM AVLLLLALLT AALILYRRRQ SIERGAFEGA RYSRSSSSPT EATEKNILVS DMEMNEQQE

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 MRC2 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

Product Details

	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. 3. 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

Target Details

Target:	MRC2
Alternative Name:	MRC2 (MRC2 Products)
Background:	May play a role as endocytotic lectin receptor displaying calcium-dependent lectin activity. Internalizes glycosylated ligands from the extracellular space for release in an endosomal compartment via clathrin-mediated endocytosis. May be involved in plasminogen activation system controlling the extracellular level of PLAUR/PLAU, and thus may regulate protease activity at the cell surface. May contribute to cellular uptake, remodeling and degradation of extracellular collagen matrices. May play a role during cancer progression as well as in other chronic tissue destructive diseases acting on collagen turnover. May participate in remodeling of extracellular matrix cooperating with the matrix metalloproteinases (MMPs). {ECO:0000269|PubMed:10683150, ECO:0000269|PubMed:12972549}.
Molecular Weight:	164.6 kDa Including tag.
UniProt:	Q9UBG0

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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)