

Datasheet for ABIN3135600
MRC2 Protein (AA 31-1413) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	MRC2
Protein Characteristics:	AA 31-1413
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MRC2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: ADSAAALLEP DVFLIFSQGM QGCLEAQGVQ VRVTPVCNAS LPAQRWKWVS RNRLFNLGAT
QCLGTGWPVT NTTVSLGMYE CDREALSLRW QCRTLGDQLS LLLGARASNA SKPGTLERGD
QTRSGHWNII GSEEDLCARP YYEVYTIQGN SHGKPCPTIPF KYDNQWFHGC TSTGREDGHL
WCATTQDYGK DERWGFCEPIK SDCETFWDK DQLTDSCYQF NFQSTLSWRE AWASCEQQGA
DLLSITEIHE QTYINGLLTG YSSTLWIGLN DLDTSGGWQW SDNSPLKYLN WESDQPDNPG
EENCGVIRTE SSGGWQNHDC SIALPYVCKK KPNATVEPIQ PDRWTNVKVE CDPSWQPFQG
HCYRLQAEKR SWQESKRACL RGGDLLSIH SMAELEFITK QIKQEVEELW IGLNDLKLQM
NFEWSDGSLV SFTHWHPFEP NNFRDSLEDC VTIWGPEGRW NDSPCNQSLP SICKKAGRLS
QGAAEEDHGC RKGWTWHSPPS CYWLGEDQVI YSDARRLCTD HGSQLVTITN RFEQAFVSSL
IYNWEGEYFW TALQDLNSTG SFRWLSGDEV IYTHWNRDQP GYRRGGCVAL ATGSAMGLWE
VKNCTSFRRAR YICRQSLGTP VPELPGPDP TPSLTGSCPQ GWVSDPKLRH CYKVFSSERL
QEKKSWIQAL GVCRELGAQL LSLASYEEEH FVAHMLNKIF GESEPESEHQ HFWWIGLNRR

DPREGHSWRW SDGLGFSYHN FARSRHDDDD IRGCAVLDLA SLQWVPMQCQ TQLDWICKIP
RGVDVREPI GRQGRLEWVR FQEAEYKFFE HHSSWAQAQR ICTWFQADLT SVHSQAELDF
LGQNLQKLSS DQEQHWWIGL HTLESDGRFR WTDGSIINFI SWAPGKPRPI GKDKKCVYMT
ARQEDWGDQR CHTALPYICK RSNSSGETQP QDLPPSALGG CPSGWNQFLN KCFRIQQQDP
QDRVKWSEAQ FSCEQQAQL VTIANPLEQA FITASLPNVT FDLWIGLHAS QRDFQWIEQE
PLLYTNWAPG EPSGSPSPAPS GTKPTSCAVI LHSPSAHFTG RWDDRSCTEE THGFICQKGT
DPSLSPSPAA TPPAPGAELS YLNHTFRLQ KPLRWKDALL LCESRNASLA HVPDPYTQAF
LTQAARGLQT PLWIGLASEE GSRRYSWLSE EPLNYVSWQD EEPQHSGGCA YVDVDGTWRT
TSCDTKLQGA VCGVSRGPPP RRINYRGSCP QGLADSSWIP FREHCYSFHM EVLLGHKEAL
QRCQKAGGTV LSILDEMENV FVWEHLQTAE AQSRGAWLGM NFNPKGGTLV WQDNTAVNYS
NWGPPGLGPS MLSHNSCYWI QSSSGLWRPG ACTNITMGVV CKLPRVEENS FLPSAALPES PVA

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 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 receipt 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:

Product Details

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

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 participate in remodeling of extracellular matrix cooperating with the matrix metalloproteinases (MMPs). {ECO:0000269|PubMed:12668656, ECO:0000269|PubMed:14729061, ECO:0000269|PubMed:15967816}.

Molecular Weight: 157.4 kDa Including tag.

UniProt: [Q64449](#)

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.

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

Application Details

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)

Images



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