antibodies.com

Datasheet for ABIN3115121 DDR2 Protein (AA 22-855) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	DDR2
Protein Characteristics:	AA 22-855
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDR2 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	KAQVNPAICR YPLGMSGGQI PDEDITASSQ WSESTAAKYG RLDSEEGDGA WCPEIPVEPD
	DLKEFLQIDL HTLHFITLVG TQGRHAGGHG IEFAPMYKIN YSRDGTRWIS WRNRHGKQVL
	DGNSNPYDIF LKDLEPPIVA RFVRFIPVTD HSMNVCMRVE LYGCVWLDGL VSYNAPAGQQ
	FVLPGGSIIY LNDSVYDGAV GYSMTEGLGQ LTDGVSGLDD FTQTHEYHVW PGYDYVGWRN
	ESATNGYIEI MFEFDRIRNF TTMKVHCNNM FAKGVKIFKE VQCYFRSEAS EWEPNAISFP
	LVLDDVNPSA RFVTVPLHHR MASAIKCQYH FADTWMMFSE ITFQSDAAMY NNSEALPTSP
	MAPTTYDPML KVDDSNTRIL IGCLVAIIFI LLAIIVIILW RQFWQKMLEK ASRRMLDDEM
	TVSLSLPSDS SMFNNNRSSS PSEQGSNSTY DRIFPLRPDY QEPSRLIRKL PEFAPGEEES
	GCSGVVKPVQ PSGPEGVPHY AEADIVNLQG VTGGNTYSVP AVTMDLLSGK DVAVEEFPRK
	LLTFKEKLGE GQFGEVHLCE VEGMEKFKDK DFALDVSANQ PVLVAVKMLR ADANKNARND
	FLKEIKIMSR LKDPNIIHLL AVCITDDPLC MITEYMENGD LNQFLSRHEP PNSSSSDVRT
	VSYTNLKFMA TQIASGMKYL SSLNFVHRDL ATRNCLVGKN YTIKIADFGM SRNLYSGDYY

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3115121 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	RIQGRAVLPI RWMSWESILL GKFTTASDVW AFGVTLWETF TFCQEQPYSQ LSDEQVIENT GEFFRDQGRQ TYLPQPAICP DSVYKLMLSC WRRDTKNRPS FQEIHLLLLQ QGDE
	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 DDR2 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:	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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3115121 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details	
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	DDR2
Alternative Name:	DDR2 (DDR2 Products)
Background:	Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell
	differentiation, remodeling of the extracellular matrix, cell migration and cell proliferation.
	Required for normal bone development. Regulates osteoblast differentiation and chondrocyte
	maturation via a signaling pathway that involves MAP kinases and leads to the activation of the
	transcription factor RUNX2. Regulates remodeling of the extracellular matrix by up-regulation o
	the collagenases MMP1, MMP2 and MMP13, and thereby facilitates cell migration and tumor
	cell invasion. Promotes fibroblast migration and proliferation, and thereby contributes to
	cutaneous wound healing. {ECO:0000269 PubMed:16186104,
	ECO:0000269 PubMed:16186108, ECO:0000269 PubMed:17665456,
	EC0:0000269 PubMed:18201965, EC0:0000269 PubMed:20004161,
	EC0:0000269 PubMed:20564243, EC0:0000269 PubMed:20734453,
	ECO:0000269 PubMed:9659899}.
Molecular Weight:	95.6 kDa Including tag.
UniProt:	Q16832
Pathways:	RTK Signaling
Application Details	
Application Natas:	In addition to the applications listed above we expect the protein to work for functional studios

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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3115121 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

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