antibodies

Datasheet for ABIN3133180 NPR1 Protein (AA 29-1057) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	NPR1
Protein Characteristics:	AA 29-1057
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPR1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	SDLTVAVVLP LTNTSYPWSW ARVGPAVELA LGRVKARPDL LPGWTVRMVL GSSENAAGVC
	SDTAAPLAAV DLKWEHSPAV FLGPGCVYSA APVGRFTAHW RVPLLTAGAP ALGIGVKDEY
	ALTTRTGPSH VKLGDFVTAL HRRLGWEHQA LVLYADRLGD DRPCFFIVEG LYMRVRERLN
	ITVNHQEFVE GDPDHYTKLL RTVQRKGRVI YICSSPDAFR NLMLLALDAG LTGEDYVFFH
	LDVFGQSLQG AQGPVPRKPW ERDDGQDRRA RQAFQAAKII TYKEPDNPEY LEFLKQLKLL
	ADKKFNFTME DGLKNIIPAS FHDGLLLYVQ AVTETLAQGG TVTDGENITQ RMWNRSFQGV
	TGYLKIDRNG DRDTDFSLWD MDPETGAFRV VLNFNGTSQE LMAVSEHRLY WPLGYPPPDI
	PKCGFDNEDP ACNQDHFSTL EVLALVGSLS LVSFLIVSFF IYRKMQLEKE LVSELWRVRW
	EDLQPSSLER HLRSAGSRLT LSGRGSNYGS LLTTEGQFQV FAKTAYYKGN LVAVKRVNRK
	RIELTRKVLF ELKHMRDVQN EHLTRFVGAC TDPPNICILT EYCPRGSLQD ILENESITLD
	WMFRYSLTND IVKGMLFLHN GAIGSHGNLK SSNCVVDGRF VLKITDYGLE SFRDPEPEQG
	HTLFAKKLWT APELLRMASP PARGSQAGDV YSFGIILQEI ALRSGVFYVE GLDLSPKEII

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	ERVTRGEQPP FRPSMDLQSH LEELGQLMQR CWAEDPQERP PFQQIRLALR KFNKENSSNI
	LDNLLSRMEQ YANNLEELVE ERTQAYLEEK RKAEALLYQI LPHSVAEQLK RGETVQAEAF
	DSVTIYFSDI VGFTALSAES TPMQVVTLLN DLYTCFDAVI DNFDVYKVET IGDAYMVVSG
	LPVRNGQLHA REVARMALAL LDAVRSFRIR HRPQEQLRLR IGIHTGPVCA GVVGLKMPRY
	CLFGDTVNTA SRMESNGEAL RIHLSSETKA VLEEFDGFEL ELRGDVEMKG KGKVRTYWLL
	GERGCSTRG
	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 Npr1 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

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 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:	NPR1
Alternative Name:	Npr1 (NPR1 Products)
Background:	Receptor for the atrial natriuretic peptide NPPA/ANP and the brain natriuretic peptide NPPB/BNP which are potent vasoactive hormones playing a key role in cardiovascular homeostasis. Has guanylate cyclase activity upon binding of the ligand.
Molecular Weight:	117.1 kDa Including tag.
UniProt:	P18293

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 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.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

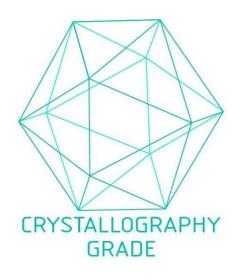


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process