Datasheet for ABIN3131211 ATP2B1 Protein (AA 2-1220) (rho-1D4 tag)

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Overview

Quantity:	1 mg
Target:	ATP2B1
Protein Characteristics:	AA 2-1220
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2B1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	GDMANNSVAY SGVKNSLKEA NHDGDFGITL TELRALMELR STDALRKIQE SYGDVYGICT
	KLKTSPNEGL SGNPADLERR EAVFGKNFIP PKKPKTFLQL VWEALQDVTL IILEIAAIVS
	LGLSFYQPPE GDNALCGEVS VGEEEGEGET GWIEGAAILL SVVCVVLVTA FNDWSKEKQF
	RGLQSRIEQE QKFTVIRGGQ VIQIPVADIT VGDIAQVKYG DLLPADGILI QGNDLKIDES
	SLTGESDHVK KSLDKDPLLL SGTHVMEGSG RMVVTAVGVN SQTGIIFTLL GAGGEEEEKK
	DEKKKEKKNK KQDGAIENRN KAKAQDGAAM EMQPLKSEEG GDGDEKDKKK ANLPKKEKSV
	LQGKLTKLAV QIGKAGLLMS AITVIILVLY FVIDTFWVQK RPWLAECTPI YIQYFVKFFI
	IGVTVLVVAV PEGLPLAVTI SLAYSVKKMM KDNNLVRHLD ACETMGNATA ICSDKTGTLT
	MNRMTVVQAY INEKHYKKVP EPEAIPPNIL SYLVTGISVN CAYTSKILPP EKEGGLPRHV
	GNKTECALLG FLLDLKRDYQ DVRNEIPEEA LYKVYTFNSV RKSMSTVLKN SDGSFRIFSK
	GASEIILKKC FKILSANGEA KVFRPRDRDD IVKTVIEPMA SEGLRTICLA FRDFPAGEPE
	PEWDNENDVV TGLTCIAVVG IEDPVRPEVP EAIKKCQRAG ITVRMVTGDN INTARAIATK

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	CGILHPGEDF LCLEGKDFNR RIRNEKGEIE QERIDKIWPK LRVLARSSPT DKHTLVKGII
	DSTVSEQRQV VAVTGDGTND GPALKKADVG FAMGIAGTDV AKEASDIILT DDNFTSIVKA
	VMWGRNVYDS ISKFLQFQLT VNVVAVIVAF TGACITQDSP LKAVQMLWVN LIMDTLASLA
	LATEPPTESL LLRKPYGRNK PLISRTMMKN ILGHAFYQLV VVFTLLFAGE KFFDIDSGRN
	APLHAPPSEH YTIVFNTFVL MQLFNEINAR KIHGERNVFE GIFNNAIFCT IVLGTFVVQI
	IIVQFGGKPF SCSELSIEQW LWSIFLGMGT LLWGQLISTI PTSRLKFLKE AGHGTQKEEI
	PEEELAEDVE EIDHAERELR RGQILWFRGL NRIQTQIRVV NAFRSSLYEG LEKPESRSSI
	HNFMTHPEFR IEDSEPHIPL IDDTDAEDDA PTKRNSSPPP SPNKNNNAVD SGIHLTIEMN
	KSATSSSPGS PLHSLETSL
	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 Atp2b1 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:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with

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	 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:	ATP2B1
Alternative Name:	Atp2b1 (ATP2B1 Products)
Background:	This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium. Involved in bone homeostasis. Has a role in osteoclastogenesis where it regulates RANKL-induced calcium oscillation, a key step in the differentiation process. Also promotes survival of mature osteoclasts, probably by preventing toxic accumulation of intracellular calcium. {ECO:0000255 RuleBase:RU361146, ECO:0000269 PubMed:23266958}.
Molecular Weight:	135.8 kDa Including tag.
UniProt:	G5E829
Pathways:	Ribonucleoside Biosynthetic Process
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.

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Application Details

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)