Datasheet for ABIN5326718

ATP1B1 Protein

1 Image | 1 Publication

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Overview

Quantity:	100 µL
Target:	ATP1B1
Reactivity:	Please inquire
Host:	Please inquire
Application:	Western Blotting (WB)

Product Details

Brand:	SERVA®

Target Details

Target:	ATP1B1
Alternative Name:	AtpB (AtpB) (ATP1B1 Products)
Background:	ATP synthase is the universal enzyme that stnthesizes ATP from ADP and phosphate using the energy stored in a transmembrane ion gradient.This product is a recombinant protein standard, source: Synechocystis strain PCC 6803.
Molecular Weight:	50-54 kDa
Pathways:	Thyroid Hormone Synthesis, Ribonucleoside Biosynthetic Process, SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Standard curve: 3 loads are recommended (0.5, 2 and 4i1/4l).For most applications a sample

Application Details

	load of 0.2i1/4g of chlorophyll will give a AtpB signal in this range.Positive control: load per well: a 2i1/4l load is optimal for most chemiluminescent detection systems.This standard is stabilized and ready and does not require heating before loading on the gel.Please note that this product contains 10 % glycerol and might appear as liquid but is provided lyophilized. Allow the product several minutes to solubilize after adding water. Mix thoroughly but gently Take extra care to mix thoroughly before each use, as the proteins tend to settle with the more dense layer after freezing.
Comment:	Concentration: after adding 225 µl of dest. water final concentration of the standard is 0.27 pmol/µl.Protein standard buffer composition: Glycerol 10%, Tris Base 141 mM, Tris HCl 106 mM, LDS 2%, EDTA 0.51 mM, SERVA® Blue G250 0.22 mM, Phenol Red 0.175 mM, pH 8.5, 0.1mg/ml PefaBloc protease inhibitor (Roche), 50mM DTT.This standard is ready-to-load and does not require any additions or heating. It needs to be fully thawed and thoroughly mixed prior to using. Avoid vigorous vortexing, as buffers contain detergent. Following mixing, briefly pulse in a microcentrifuge to collect material from cap.This standard is stabilized and ready and does not require heating before loading on the gel. Please note that this product contains 10% glycerol and might appear as liquid but is provided lyophilized. Allow the product several minutes to solubilize after adding water. Mix thoroughly but gently Take extra care to mix thoroughly before each use, as the proteins tend to settle with the more dense layer after freezing.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	For reconstitution add 225 µL of milliQ water
Buffer:	Glycerol 10 %, Tris Base 141 mM, Tris HCl 106 mM, LDS 2 %, EDTA 0.51 mM, SERVA® Blue G250 0.22 mM, Phenol Red 0.175 mM, pH 8.5, 0.1mg/mL PefaBloc protease inhibitor (Roche), 50mM DTT.
Handling Advice:	Once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
Storage:	-20 °C
Storage Comment:	store lyophilized/reconstituted at -20°C, once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any

Handling

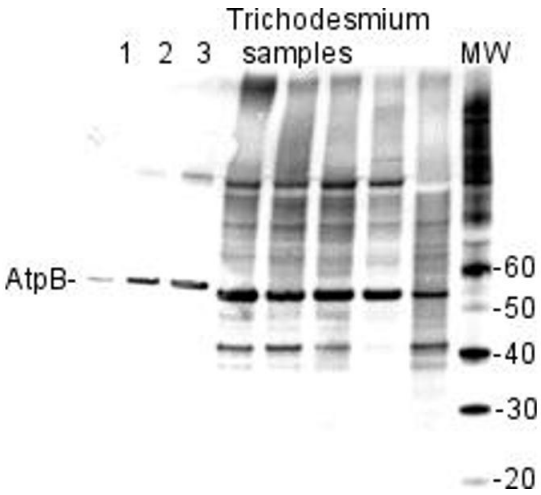
losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Publications

Product cited in:

Johnson: "Altered expression of the chloroplast ATP synthase through site-directed mutagenesis in Chlamydomonas reinhardtii." in: **Photosynthesis research**, Vol. 96, Issue 2, pp. 153-62, (2008) (PubMed).

Images



Western Blotting

Image 1.