

AtpB | Positive control/quantitation standard

Cat PA01013

Size 100 μ l

Host

Clonality

Confirmed reactivity

Format

Lyophilized, in glycerol.

Reconstitution

For reconstitution add 90 μ l of milliQ water, Please notice that this product contains 10% glycerol and might appear as liquid but is provided lyophilized

Storage

Store lyophilized/reconstituted at -20°C ; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application

Western blot (WB)

Recommended dilution

Standard curve: 3 loads are recommended (0.5, 2 and 4 μ l). For most applications a sample load of 0.2 μ g of chlorophyll will give a AtpB signal in this range. Positive control: load per well: a 2 μ l 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.

Expected | apparent MW

in most gel systems AtpB migrates around 50-54 kDa

Additional information

The AtpB protein standard can be used in combination with global anti-AtpB antibodies to quantitate AtpB from a wide range of species. Global antibodies are raised against highly conserved amino acid sequences in the AtpB protein. Quantitative western blot: detailed method description, video tutorial, Concentration: after adding 90 μ l of dest. water final concentration of the standard is 0.27 pmol/ μ l. 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.

Description

ATP synthase is a general-purpose enzyme that synthesizes ATP from ADP and phosphate using energy stored

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in a transmembrane ion gradient. This product is the standard product of recombinant protein, source: Polycytial strain pcc6803.

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