

Datasheet for ABIN93533
anti-ATP1B1 antibody (Subunit beta)



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Overview

Quantity:	100 µL
Target:	ATP1B1
Binding Specificity:	Subunit beta
Reactivity:	Spinach, Synechocystis PCC 6803
Host:	Chicken
Clonality:	Polyclonal
Conjugate:	This ATP1B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunolocalization (IL)

Product Details

Immunogen:	KLH-conjugated synthetic peptide derived from available plant, algal (chloroplastic and mitochondrial) and bacterial sequences of beta subunits of F-type ATP synthases, including Arabidopsis thaliana chloroplastic ATP synthase subunit beta UniProt: P19366, TAIR: AtCg00480 and Arabidopsis thaliana mitochondrial ATP synthase subunit beta-1, UniProt: P83483, TAIR: At5g08670 as well as Chlamydomonas reinhardtii, UniProt: P06541 and A8IQU3
Isotype:	IgY
Cross-Reactivity (Details):	No cross-reactivity with: archeal V-type ATP synthase
Characteristics:	Expected / apparent Molecular Weight of the Antigene: 53.9kDa (Arabidopsis thaliana), 51.7 kDa (Synechocystis PCC 6803), 53.7 kDa (Spinacia oleracea)
Purification:	affinity purified

Target Details

Target:	ATP1B1
Alternative Name:	AtpB (ATP1B1 Products)
Background:	AGI Code: At5g08670, ATCG00480 ATP synthase is the universal enzyme that synthesizes ATP from ADP and phosphate using the energy stored in a transmembrane ion gradient.
Molecular Weight:	53.9 kDa (Arabidopsis thaliana), 51.7 kDa (Synechocystis PCC 6803), 53.7 kDa (Spinacia oleracea)
UniProt:	P83483 , A81QU3 , P19366 , P06541
Pathways:	Thyroid Hormone Synthesis , Ribonucleoside Biosynthetic Process , SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Recommended Dilution: 1 : 5 000 - 1 : 8 000 (WB), 1 : 500 for localization of native enzyme by immunogold(IL).
Comment:	results of immunogold studies using anti-AtpB antibody are published in Andersson et al. (2009)
Restrictions:	For Research Use only

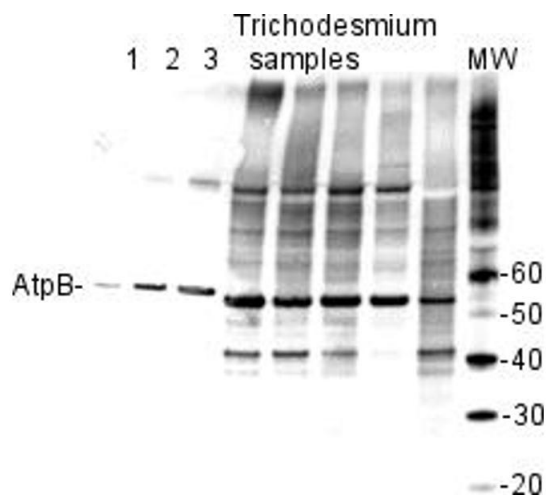
Handling

Format:	Liquid
Buffer:	PBS pH 8.0 + 0.02 % sodium azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid material adhering to the cap or sides of the tubes. Make aliquots to avoid repeated freeze-thaw cycles and working with a stock.
Storage:	4 °C

Publications

Product cited in: Fuller, Craven, Hall, Kijek, Taft-Benz, Kawula: "RipA, a cytoplasmic membrane protein conserved among Francisella species, is required for intracellular survival." in: **Infection and immunity**, Vol. 76, Issue 11, pp. 4934-43, (2008) ([PubMed](#)).

Images



Western Blotting

Image 1. From left to right: molecular weight markers (MagicMark XP, Invitrogen), whole cell extract of Synechocystis PCC6803 (size 51.7 kDa), isolated thylakoid fraction of spinach (size 53.7 kDa) Note: Double bands detected can be a result of degradation or contamination.