

Datasheet for ABIN93533 **anti-ATP1B1 antibody (Subunit beta)**



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1 Image

1 Publication

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

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|-----------------------------|--|
| 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 A81QU3 |
| 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

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|-------------------|---|
| 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 (<i>Arabidopsis thaliana</i>), 51.7 kDa (<i>Synechocystis</i> PCC 6803), 53.7 kDa (<i>Spinacia oleracea</i>) |
| UniProt: | P83483 , A8IQU3 , P19366 , P06541 |
| Pathways: | Thyroid Hormone Synthesis , Ribonucleoside Biosynthetic Process , SARS-CoV-2 Protein Interactome |

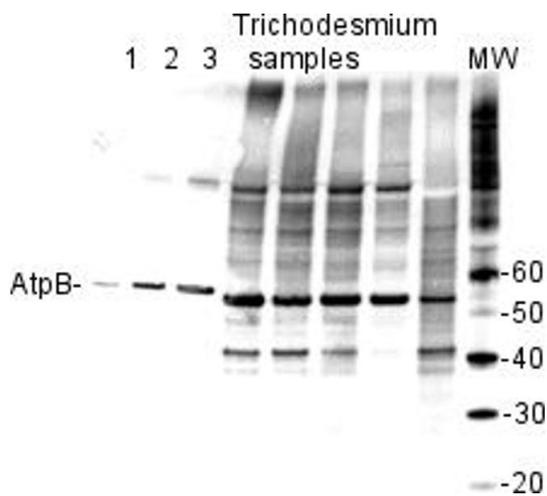
Application Details

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|--------------------|--|
| 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

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|--------------------|---|
| 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 |

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](#)).



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.