

This product is for research use only (not for diagnostic or therapeutic use)

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Product no AS08 304

AtpA | Alpha subunit of ATP synthase, chloroplastic (plant)

Product information

Immunogen Recombinant maize chloroplast AtpA P05022

Host Rabbit

Clonality Polyclonal

Purity Serum

Format Lyophilized

Quantity 50 μl

Reconstitution For reconstitution add 50 μl of sterile water

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

Additional information Sequence of the protein used for eliciting this antibody is also conserved in Arabidopsis thaliana AtpA P56757

Application information

Recommended dilution 1: 200 (IG), 1:5 000 (WB)

Expected | apparent 55 kDa

Confirmed reactivity Arabidopsis thaliana, Begonia sp., Capsicum annuum, Heliobacterium modesticaldum, Oryza sativa, Zea mays

Predicted reactivity

Dicots and (including Lilium superbum) chloroplast AtpA; may cross-react with mitochondrial AtpA; Algae, Nannochloropsis gaditana, Cyanobacteria

Species of your interest not listed? Contact us

Not reactive in Nicotiana benthamiana

Selected references

Pao et al. (2018). Lamelloplasts and minichloroplasts in Begoniaceae: iridescence and photosynthetic functioning. J Plant Res. 2018 Mar 2. doi: 10.1007/s10265-018-1020-2. (ImmunoGold)

Zhang et al. (2017). Nitric oxide induces monosaccharide accumulation through enzyme S-nitrosylation. Plant Cell Environ. 2017 Sep;40(9):1834-1848. doi: 10.1111/pce.12989.

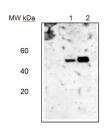
Jeon et al. (2017). Functional characterization of chloroplast-targeted RbgA GTPase in higher plants. Plant Mol Biol. 2017 Nov;95(4-5):463-479. doi: 10.1007/s11103-017-0664-y.

Murcha et al. (2016). Plant specific Preprotein and Amino Acid Transporter proteins are required for tRNA import into mitochondria. Plant Physiol. 2016 Oct 27. pii: pp.01519.2016.

Camejo et al. (2015). Proteomic identification of mitochondrial carbonylated proteins in two maturation stages of pepper fruits. Proteomics. 2015 Aug;15(15):2634-42. doi: 10.1002/pmic.201400370.

Yang et al. (2015). Purification and biochemical characterization of the ATP synthase from Heliobacterium modesticaldum. Protein Expr Purif. 2015 May 12. pii: S1046-5928(15)00111-4. doi: 10.1016/j.pep.2015.05.006.

Application example



Western blot

Lane 1: Arabidopsis thaliana total leaf protein extract;

Lane 2: Zea mays total leaf protein extract

5 μg of total protein were loaded per each lane.

Experimental conditions:



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Proteins were separated in a 12% or 5-15% gradient gel following by a transfer to nitrocellulose membrane. Membrane was blocked with TBST + 4% non-fat dried milk, 20 min following by three washes in TBST. Incubation time with primary and secondary antibodies was 1 hr primary, 30 min for secondary antibodies followed by reaction development using chemiluminescence.