Agrisera AB | Box 57 | SE-91121 Vännas | Sweden | +46 035 33000 | www.agrisera.com

product **AS08 304**

AtpA | alpha subunit of ATP synthase

product information

background	**ATP synthase** is the universal enzyme that synthesizes ATP from ADP and phosphate using the energy stored in a transmembrane ion gradient. **AtpA** is the largest subunit of the membrane-extrinsic ATP synthase subcomplex.
immunogen	recombinant maize chloroplast AtpA P05022
antibody format	rabbit; polyclonal; serum; lyophilized
quantity	100 µl - for reconstitution add 100 µl of sterile water
storage	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 losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	Western blot (WB)
related products	AS03 030 | anti-ATP synthase subunit beta hen antibody AS08 312 | anti-ATP synthase subunit gamma antibody AS05 071 | anti-ATP synthase subunit c antibody AS08 370 | anti-ATP synthase whole enzyme
additional information	sequence of protein used for eliciting this antibody is also conserved in *Arabidopsis thaliana* AtpA P56757

application information

recommended dilution	1: 10 000 with standard ECL (WB)
expected | apparent MW	55 kDa
confirmed reactivity	*Arabidopsis thaliana, Zea mays*
predicted reactivity	established to react with dicot and monocot chloroplast AtpA; may cross-react with mitochondrial AtpA; algae, cyanobacteria
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	to be added when available

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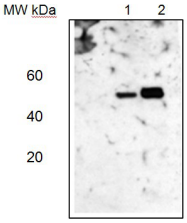
application example

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:

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. Manufacturer of secondary antibodies: Bio-Rad