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
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