

product **AS08 304**

### AtpA | alpha subunit of ATP synthase

#### product information

<b>background</b>	<b>ATP synthase</b> is the universal enzyme that synthesizes ATP from ADP and phosphate using the energy stored in a transmembrane ion gradient. <b>AtpA</b> is the largest subunit of the membrane-extrinsic ATP synthase subcomplex.
<b>immunogen</b>	recombinant maize chloroplast <a href="#">P05022</a>
<b>antibody format</b>	rabbit; polyclonal; serum; lyophilized
<b>quantity</b>	100 µl - for reconstitution add 100 µl of sterile water
<b>storage</b>	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.
<b>tested applications</b>	Western blot (WB)
<b>additional information</b>	sequence of protein used for eliciting this antibody is also conserved in <i>Arabidopsis thaliana</i> AtpA <a href="#">P56757</a>

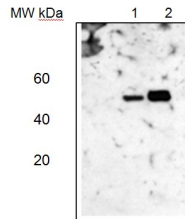
#### application information

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