

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

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### Product no AS09 580

# aadA1 | Aminoglycoside adenyltransferase (chloroplast transformation marker)

### **Product information**

Immunogen KLH-conjugated peptide derived from known aadA1 protein sequences

Host Rabbit

Clonality Polyclonal

**Purity** Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 μg

**Reconstitution** For reconstitution add 50 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 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 This product can be sold containing ProClin if requested

## **Application information**

Recommended dilution 1:3 000 (WB)

Expected | apparent 30

ww

30 | 30 kDa

Confirmed reactivity aadA casesette in Nicotiana tabacum, Chlamydomonas reinhardtii

Predicted reactivity | Acinetobacter baumannii. Enterobacter agglomerans. Klebsiella pr

Acinetobacter baumannii, Enterobacter agglomerans, Klebsiella pneumoniae, Klebsiella oxytoca, Kluyvera ascorbata, Pseudomonas aeruginosa, Salmonella enterica subsp. enterica serovar Worthington, Staphylococcus

aureus, Serratia sp., Shigella flexneri

Species of your interest not listed? Contact us

Not reactive in No confirmed exceptions from predicted reactivity are currently known

Selected references Lauersen et a. (2018). Phototrophic production of heterologous diterpen

Lauersen et a. (2018). Phototrophic production of heterologous diterpenoids and a hydroxy-functionalized derivative from Chlamydomonas reinhardtii. Metab Eng. 2018 Jul 12;49:116-127. doi: 10.1016/j.ymben.2018.07.005.

#### **Application example**



Chlamydomonas reinhardtii cells (1,2) (corresponding to 10 ug of chlorophyll) and soluble extracts of Nicotiana tabaccum leaves (3,4) were separated on a 15% acrylamide gel containing 8M urea, transferred on nitrocellulose membrane, incubated with anti-aad1 antibodies in 1:5000 dilution for 1 h in RT, followed by washes and incubation with a secondary anti-rabbuit IgG antibody in 1:10 000 dilution) and revealed by chemiluminescent detection reagent (3 min exposure). Tested Chlamydomonas reinhardtii and Nicotiana tabaccum strains expressed (+) or not (-) the aadA cassette.

AadA protein in *Chlamydomonas reinhardtii* migrates more slowly than its *Nicotiana tabaccum* counterpart as it also includes the 27 first residues of the atpA coding sequence.

Courtesy of Drs Y.Choquet, K. Wostrikoff and D. Drapier, CNRS, France