

Agrisera

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

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Product no **AS09 580**

aadA1 | Aminoglycoside adenylyltransferase (chloroplast transformation marker)

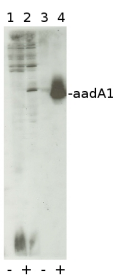
Product information

Immunogen	KLH-conjugated peptide derived from known aadA1 protein sequences
Host	Rabbit
Clonality	Polyclonal
Purity	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 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.
Additional information	This product can be sold containing ProClin if requested.

Application information

Recommended dilution	1 : 3 000 (WB)
Expected apparent MW	30 30 kDa
Confirmed reactivity	aadA casesette in <i>Nicotiana tabacum</i> , <i>Chlamydomonas reinhardtii</i>
Predicted reactivity	<i>Acinetobacter baumannii</i> , <i>Enterobacter agglomerans</i> , <i>Klebsiella pneumoniae</i> , <i>Klebsiella oxytoca</i> , <i>Kluyvera ascorbata</i> , <i>Pseudomonas aeruginosa</i> , <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Worthington</i> , <i>Staphylococcus aureus</i> , <i>Serratia</i> sp., <i>Shigella flexneri</i> Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Selected references	Lauersen et al. (2018). Phototrophic production of heterologous diterpenoids and a hydroxy-functionalized derivative from <i>Chlamydomonas reinhardtii</i> . <i>Metab Eng.</i> 2018 Jul 12;49:116-127. doi: 10.1016/j.ymben.2018.07.005.

Application example



Chlamydomonas reinhardtii cells (**1,2**) (corresponding to 10 µg of chlorophyll) and soluble extracts of *Nicotiana tabacum* 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-rabbit IgG antibody in 1 : 10 000 dilution) and revealed by chemiluminescent detection reagent (3 min exposure). Tested *Chlamydomonas reinhardtii* and *Nicotiana tabacum* strains expressed (+) or not (-)

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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