Agrisera
Antibodies for research

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product **AS07 225**

A12.2 | RNA polymerase I subunit (homolog of Pol II Rpb9)

product information

background	RNA polymerase I is a nuclear located DNA-dependent enzyme involved in RNA elongation and regulation of transcription. In yeast subunit **A12.2** has been described as homologous to the Rpb9 subunit from polymerase II.
immunogen	KLH-conjugated peptide derived from the *Arabidopsis thaliana* A12.2 (At3g25940) protein sequence. This sequence is only weakly conserved in other eukaryotic sequences available in the databases.
antibody format	rabbit polyclonal affinity purified serum, in PBS pH 7.4 lyophilized
quantity	200 µg - for reconstitution add 143 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)
additional information	cellular [compartment marker] of nucleoplasm; this product has previously been labelled as anti-At3g25940 transcription factor S-II (TFIIS) domain-containing protein

application information

recommended dilution	1 : 2 000 with standard ECL (WB)
expected | apparent MW	13.6
confirmed reactivity	*Arabidopsis thaliana*
predicted reactivity	*Arabidopsis thaliana*
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	This antibody is specific for A12.2 subunit of RNA polymerase I but NOT RNA polymerase II or IV from Arabidopsis thaliana
selected references	to be added when available

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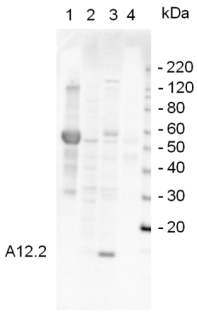
application example



10 µg of total protein from (**1**) *Arabidopsis thaliana* and (**4**) *Oryza sativa* leafs extracted with PEB (**AS08 300**), as well as (**2**) cytosolic and (**3**) nuclear fractions of *Arbaidopsis thaliana* leafs were separated on **4-12%** NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **nitrocellulose**. Filters were blocked 1h with 2% low-fat **milk powder** in TBS-T (0.1% TWEEN 20) and probed with anti-A12.2 (AS07 255, **1:1000**, 1h) and secondary anti-rabbit (**1:20000,** 1 h) antibody (HRP conjugated, Abcam) in TBS-T containing 2% low fat milk powder. Antibody incubations were followed by washings in TBS-T (15, +5, +5, +5 min). All steps were performed at RT with agitation. Signal was detected with **standard ECL** (Invitrogen) using a Fuji LAS-3000 CCD (300s, standard sensitivity). The target A12.2 is specifically detected only in the nuclear extract of *Arabidopsis thaliana* (**3**).