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Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS11 1804

RPB1 | RNA polymerase II subunit B1

Product information

Immunogen	KLH-conjugated synthetic peptide derived from known higher plant polymerase II sequences, including *Arabidopsis thaliana* P18616, At4g35800
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	Purified IgG was lyophilized from PBS pH 7.4 + 0.02 % sodium azide. Therefore only distilled water is required for its re-constitution.

Application information

Recommended dilution	1,2 or 5 µg (IP)
Expected | apparent MW	204 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Amygdalus persica, Asparagus officinalis, Brassica rapa, Capsella rubella, Glycine max, Hordeum vulgare, Solanum lycopersicum, Oryza glaberrima, Panicum italicum, Persea americana, Pisum sativum, Ricinus communis, Solanum tuberosum, Sorghum vulgare, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Additional information	This antibody is not suitable for western blot in denatured conditions.For high resolution images, please visit the specific product page at www.agrisera.com
Selected references	Wang et al. (2020). Close arrangement of CARK3 and PMEIL affects ABA-mediated pollen sterility in Arabidopsis thaliana. Plant Cell Environ. 2020 Aug 20.doi: 10.1111/pce.13871. Godoy Herz et al. (2019). Light Regulates Plant Alternative Splicing through the Control of Transcriptional Elongation. Mol Cell. 2019 Jan 15. pii: S1097-2765(18)31035-9. doi: 10.1016/j.molcel.2018.12.005. Dolata et al. (2015). NTR1 is required for transcription elongation checkpoints at alternative exons in Arabidopsis. EMBO J. 2015 Jan 7. pii: e201489478.

Application example

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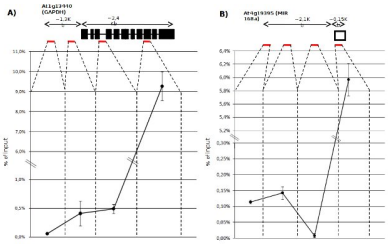

Chromatin immunoprecipitation (ChIP). Chromatin immunoprecipitation was performed as described (Bowler et al. (2004), Plant Journal) with modifications. Sonic and IP buffer were prepared as described (Kaufmann et al. (2010)), Nature Protocols). Chromatin pellet was sonicated at 4 °C with a Diagenode Bioruptor set at high intensity for 10 min (30 sec on, 30 sec off intervals) to obtain 250-500 bp DNA fragments. Chromatin (20 µg) was immunoprecipitated with a RNA Pol II antibody (2µg/IP)and Dynabeads®Protein G (Life Technologies). Reverse corsslinking and elution of DNA fragments were performed using Chelex (Biorad) at 95°C, 10 min as described (Rowley et al. (2013), Methods). Sample without antibody was used to determine the nonspecific background pulled-down directly by the beads. Relative abundance of regions of interest in immunoprecipitated DNA was measured by real-time PCR. Red lines indicates amplified region. Values on the charts are shown as the mean ± SD level (% of input) of RNA Pol II on GAPDH gene (A) and MIR168a (B) gene. Data comes from three independent experiments.

Courtesy of MSc Jakub Dolata, Adam Mickiewicz University, Poland