

Agrisera

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

contact: support@agrisera.com

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

product **AS12 1861**

ABI1 | Abscisic acid insensitive 1

product information

Background | ABI1 is a key component and repressor of the abscisic acid (ABA) signaling pathway. It regulates numerous ABA responses, such as stomatal closure, osmotic water permeability of the plasma membrane, drought-induced resistance and rhizogenesis, response to glucose, high light stress, seed germination and inhibition of vegetative growth. Expressed in seeds and seedlings. Confined to lateral root caps and columella cells in roots. Induced by low temperature, drought, high salt, ABA and ethylene. Activates/represses SnRK2.6/SRK2E/OST1 in response to ABA-dependent stimuli. Alternative names: ABI1, ABA INSENSITIVE 1, AtABI1, Protein phosphatase 2C 56, AtPP2C56, PP2C56.

Immunogen | KLH-conjugated peptide, derived from *Arabidopsis thaliana* ABI1 sequence UniProt: [P49597](#), TAIR: [AT4G26080](#). Chosen peptide is not present in AtABI2.

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.

Tested applications | Immunoprecipitation (IP), Western blot (WB)

Related products | [AS12 1871](#) | ABI2 | abscisic acid insensitive 2, rabbit antibody

[AS12 1862](#) | ABI3 | abscisic acid insensitive 3, rabbit antibody

[AS12 1863](#) | ABI5 | abscisic acid insensitive 5, rabbit antibody

[AS13 2634](#) | PYR1 | Abscisic acid receptor RCAR11, rabbit antibody

[AS13 2635](#) | SRK2E | Ser/Thr-protein kinase SnRK2.6, rabbit antibody

[Plant protein extraction buffer](#)

[Secondary antibodies](#)

Additional information | It is of crucial importance to choose a material in which ABI1 protein is highly expressed like seeds or senescent leaf. This protein could not be detected using this antibody in plants grown under optimal conditions. The antibody detects both, recombinant and endogenous ABI1 protein.

Application information

Recommended dilution | 5 µg (IP for a 200 µl of a cell extract), 3 µg (WB)

Expected | apparent MW | 47.5 kDa

Confirmed reactivity | *Arabidopsis thaliana*

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

Additional information | **Important note:** blocking with more than 3 % skimmed milk will result in lack of signal for this antibody.

Agrisera

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

contact: support@agrisera.com

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

Selected references

[Mitula](#) et al. (2015). Arabidopsis ABA-Activated Kinase MAPKKK18 is Regulated by Protein Phosphatase 2C ABI1 and the Ubiquitin-Proteasome Pathway. *Plant Cell Physiol.* 2015 Dec;56(12):2351-67. doi: 10.1093/pcp/pcv146. Epub 2015 Oct 6.