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Product no AS12 1871

Anti-ABI2 | Abscisic acid insensitive 2

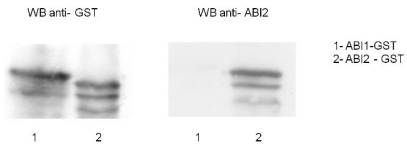
Product information

Immunogen	KLH-conjugated synthetic peptide derived from N-terminus of *Arabidopsis thaliana* ABI2 sequence, UniProt: O04719, ,TAIR: AT5G57050 chosen peptide is not conserved in ABI1
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.

Application information

Expected | apparent MW	46 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	ABI2 antibodies recognize recombiant StrepTag-ABI2, ABI2-GST, His-ABI2. ABI2 protein is easily degraded therefore extraction buffer needs to contain protease inhibotors, example of such inhibitor coctail can be found here. To detect endogenous ABI2 plant material needs to be subjected to stress before harvesting.
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.

application example



GST-ABI1 and GST-ABI2 were purified on glutathione sepharose and separated on 10% SDS-PAGE and blotted 1h to PVDF (semi-dry). Blots were blocked with 3% semi-skimmed milk for 30 min. at room temperature (RT) with agitation. Blots were incubated with the anti-ABI2 primary antibody diluted to 1: 1000 for 30 minutes at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted to 1:50 000 for 30 min. at RT with agitation. The blot was washed as above and developed for 1 min with ECL according to the manufacturer's instructions. Exposure time was 5 min.
Multiple bands are a result of degradation of GST-ABI2 protein.

Courtesy of Małgorzata Tajdel, from Dr. Agnieszka Ludwików labolatory, Adam Mickiewicz University, Poland