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Product no AS12 2113

AHK2 | Histidine kinase 2

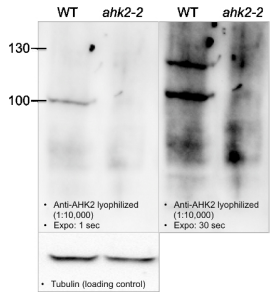
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* AHK2 protein sequence, TAIR: AT5G35750, UniProt: Q9C5U2
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

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	131 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Nicotiana benthamiana, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known

application information



The *Arabidopsis thaliana* wild-type (WS) and *ahk2-2* T-DNA insertion mutant plants were grown on MS/2 media for six days. Tissue was collected, frozen in liquid nitrogen, ground in 3 volumes of 2x SDS-PAGE loading buffer and heated at 95 C for 5 min. After 10 min centrifugation at RT, **20 µl** of the supernatant was loaded per lane on a **7.5% TGX gel** (BioRad). After separation, proteins were blotted 1 hr onto a supported **nitrocellulose** membrane. Blots were blocked with 10% milk in PBS-T for 15 min at room temperature (RT) with agitation. Blot was incubated in the primary antibody diluted 1: 10, 000 in 1% milk in PBS-T for 16h at 4C with agitation. The antibody solution was decanted and the blot was washed 3 times for1 5 min in PBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 2000 in PBS-T for 1h at RT with agitation. The blot was washed as above and developed for 5 min with chemiluminescent detection reagent according to the manufacturer\s instructions. Chemiluminescent signal was captured using ChemiDoc equipped with a CCD camera.

Courtesy of Dr. Jasmina Kurepa, University of Kentucky College of Agriculture, Food and Environment, USA