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Product no AS10 920

AKIN11 | SNF1-related protein kinase catalytic subunit alpha KIN11

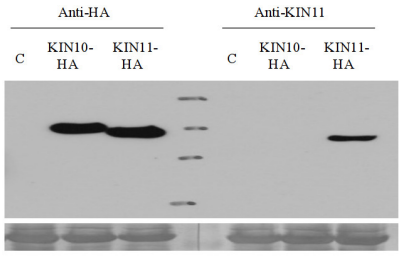
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* AKIN11 sequence UniProt: P92958,TAIR: At3g29160
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 25 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	58,6 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Not reactive in	*Oryza sativa, Vitis vinfera*
Selected references	Gutierrez-Beltran et al. (2021) Tudor staphylococcal nuclease is a docking platform for stress granule components and is essential for SnRK1 activation in Arabidopsis. EMBO J. 2021 Jul 21:e105043. doi: 10.15252/embj.2020105043. Epub ahead of print. PMID: 34287990. Pedrotti et al. (2018). Snf1-RELATED KINASE1-Controlled C/S1-bZIP Signaling Activates Alternative Mitochondrial Metabolic Pathways to Ensure Plant Survival in Extended Darkness. Plant Cell. 2018 Feb;30(2):495-509. doi: 10.1105/tpc.17.00414. Epub 2018 Jan 18. Emanuelle et al. (2015). SnRK1 from Arabidopsis thaliana is an atypical AMPK. Plant J. 2015 Mar 3. doi: 10.1111/tpj.12813.

Application example



Total protein from 20 000 *Arabidopsis thaliana* leaf mesophyll protoplasts transiently expressing HA-tagged KIN10 or KIN11 (or transfected with control plasmid, C) were separated on 10% SDS-PAGE and blotted 1h to PVDF using semi-dry. Blots were blocked with 5% low-fat milk in TBST (0.05% Tween20) for 1h at room temperature (RT) with agitation. Blot was incubated in anti-HA **(left)** or anti-KIN11 **(right)** at a dilution of 1: 1 000 overnight at 4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 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) diluted to 1:10 000 in for 1h at RT with agitation. The blot was washed as above and exposed to film, developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 60 seconds.

Courtesy Dr. Filip Rolland, KU Leuven, Belgium