

Product no **AS10 920****Anti-AKIN11 | SNF1-related protein kinase catalytic subunit alpha KIN11****Product information**

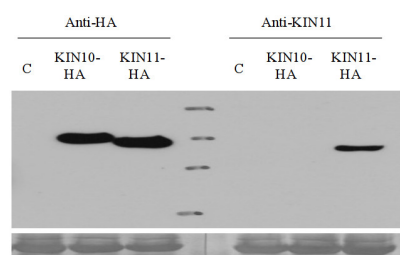
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|-----------------------|---|
| <b>Immunogen</b>      | KLH-conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> AKIN11 sequence UniProt: <a href="#">P92958</a> , TAIR: <a href="#">At3g29160</a>   |
| <b>Host</b>           | Rabbit  |
| <b>Clonality</b>      | Polyclonal  |
| <b>Purity</b>         | Immunogen affinity purified serum in PBS pH 7.4.  |
| <b>Format</b>         | Lyophilized   |
| <b>Quantity</b>       | 50 µg   |
| <b>Reconstitution</b> | For reconstitution add 25 µl of sterile water   |
| <b>Storage</b>        | 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*, *Solanum lycopersicum*, *Vitis vinifera*

**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