Product no **AS10 919**
**AKIN10 | SNF1-related protein kinase catalytic subunit alpha KIN10**

**Product information**

**Background**
AKIN10 (E.C. = 2.7.11.1) is a catalytic subunit of the putative trimeric SNF1-related protein kinase (SnRK) complex, which may play a role in a signal transduction cascade regulating gene expression and carbohydrate metabolism in higher plants. Synonyms: AKIN alpha-2

**Immunogen**
KLH-conjugated synthetic peptide derived from C-terminal part of *Arabidopsis thaliana* AKIN10 sequence UniProt: Q38997, TAIR: At3g01090

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Affinity purified serum in PBS, pH 7.4

**Format**
Lyophilized

**Quantity**
100 µg

**Reconstitution**
For reconstitution add 50 µl/tube 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**
Immunolocalization (IL), Western blot (WB)

**Related products**
- AS09 460 | Anti-AKINB1 | SNF1-related protein kinase regulatory subunit beta-1, rabbit antibodies
- AS09 462 | Anti-AKINB2 | SNF1-related protein kinase regulatory subunit beta-2, rabbit antibodies
- AS15 2859 | Anti-AKIN 83 | SNF1-related protein kinase regulatory subunit beta-3, rabbit antibodies
- AS09 463 | Anti-AKIN beta gamma, rabbit antibodies
- AS10 920 | Anti-AKIN11 | SNF1-related protein kinase catalytic subunit alpha KIN11, rabbit antibodies
- AS09 613 | Anti-AKING1 | SNF1-related protein kinase regulatory subunit gamma 1, rabbit antibodies
- collection of antibodies to proteins involved in signal transduction

**Application information**

**Recommended dilution**
1: 50 (IL), 1: 500 (WB)

**Expected | apparent MW**
61.1 kDa

**Confirmed reactivity**
*Arabidopsis thaliana*

**Predicted reactivity**
*Arabidopsis thaliana*

**Not reactive in**
*Oryza sativa, Solanum lycopersicum, Vitis vinifera*

**Additional information**
AKIN10 antibody works best when first the SnRK1 complex is immunorecipitated with this or another antibody and then anti-AKIN10 antibody is used to probe with. When this antibody is used against a lysate, the dominant rubisco protein can mask any immunoreactivity.

**Selected references**
Application example

Arabidopsis thaliana total proteins were extracted in Hepes buffer (50mM Hepes-NaOH pH 7.8; 2mM EDTA pH 8.0; 1mM DTT; Phosphatase and Protease inhibitor cocktails). After centrifugation, the supernatant was recovered and protein concentration determined using the Bradford protein assay. 5, 10, 20 and 30 µg of total protein were resolved, for each plant extract, by SDS-PAGE, transferred to a PVDF membrane and analyzed by immunoblotting with α-AKIN10 antibody (Agrisera; AS10 919; 1:500; 1% non-fat Milk in TBS O/N at 4°C). Secondary antibody anti-rabbit HRP-conjugated was used at 1:20 000, 1% non-fat Milk in TBS for 2h at RT. Washes were made as following: after blocking, the membrane was washed 2X 5 min with 1x TTBS; after the primary antibody incubation, the membrane was washed 5x 5 min with 1x TTBS; after the secondary antibody incubation, the membrane was washed 5x 5 min with 1x TTBS (contained Tween-20 at 500 µl/liter), followed by 3x 5 min with 1x TBS Wash Buffers (TBS and TTBS): 1X TBS (1 liter) 2.42 g Tris 8 g NaCl Adjust pH to 7.5-7.6 with HCl 1X TTBS: 1X TBS + 500 ul TWEEN-20 per liter. Reaction was developed following manufacture’s recommendations and recorded using BioRad GelDoc.

Courtesy of Drs. Leonor Margalha/Elena Baena-González, Instituto Gulbenkian De Ciencia, Portugal