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Product no AS14 2783

Anti-SnRK2,2, SnRK2,3, SnRK2,6 | Ser/Thr-protein kinase SnRK

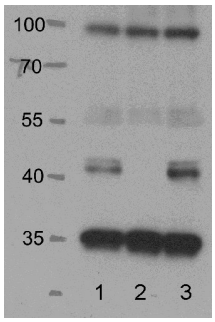
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* SnRK2.2 UniProt:Q39192 ,TAIR: At3g50500, SnRK2.3, UniProt: Q39193 TAIR: At5g66880, SnRK2.6 UniProt: Q940H6, TAIR: At4g33950
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.
Additional information	This product can be sold containing proclin if requested

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	41 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Brassica oleracea, Glycine max, Medicago sativa, Morsu notabilis, Oryza sativa, Phaseolus vulgaris, Populus* sp., *Triticum* sp., *Vicia faba* Species of your interest not listed? Contact us
Not reactive in	*Chlamydomonas reinhardtii*, *Mesotaenium* sp., *Zygnema* sp.
Selected references	Lu et al.(2024). N-glycosylation of SnRK2s affects NADPH maintenance in peroxisomes during prolonged ABA signalling. Nat Commun. 2024 Aug 5;15(1):6630. doi: 10.1038/s41467-024-50720-3. Belda-Palazón et al. (2020) A dual function of SnRK2 kinases in the regulation of SnRK1 and plant growth. Nat Plants. 2020 Nov;6(11):1345-1353. doi: 10.1038/s41477-020-00778-w. Epub 2020 Oct 19. PMID: 33077877. Wawer et al. (2018) mRNA Decapping and 5'-3' Decay Contribute to the Regulation of ABA Signaling in Arabidopsis thaliana. Front Plant Sci. 2018 Mar 12;9:312. doi: 10.3389/fpls.2018.00312.

application example



20 µg of total protein from two-week-old seedling of *Arabidopsis thaliana* Col-0 **(1)**, snrk2.2/3/6 **(2)**, snrk1/4/5/7/8/9/10 **(3)** extracted with kinase buffer were separated on 10 % SDS-PAGE and blotted 30 min to PVDF using semi-dry. Blots were blocked with 5% skim milk in TBST for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5000 in 0.5% TBST for overnight at 4 oC with agitation. The antibody solution was decanted and the blot was washed 3 times for 10 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG goat peroxidase conjugated) diluted to 1: 5 000 in 0.5 % TBST for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 30 seconds.

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