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Product no AS22 4826

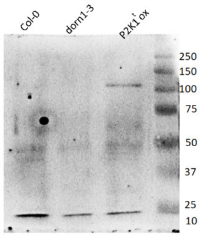
Anti-P2K1| L-type lectin-domain containing receptor kinase I.9

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* DORN1 protein, UniProt: Q9LSR8-1, TAIR: AT5G60300
Host	Rabbit
Clonality	Polyclonal
Purity	Immonogen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl, of sterile or deionized 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.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	85 | 100-110 kDa (due to heavy glycosylation)
Confirmed reactivity	*Arabidopsis thaliana* recombinant P2K1
Not reactive in	*Musa paradisiaca, Piper sp., Zingiber officinale*
Additional information	P2K1 protein is of low abundance, according to Protein Abundance Database, PAX. Therefore, to detect P2K1 in endogenous sample, high protein load of minimum 50 µg/well of membrane fraction and extreme low femtogram detection range sensitivity of detection reagent must be applied.
Selected references	To be added when available, antibody available in June 2026.



Samples:
Col-0 - *Arabidopsis thaliana* WT
dorn1-3 - *Arabidopsis thaliana* mutant
P2k1ox - *Arabidopsis thaliana* overexpressing line

15-20 µg/well of total protein extracted freshly from *Arabidopsis thaliana* microsomes. The exact buffer components were: 50 mM Hepes, pH 7.5, 250 mM sucrose, 15 mM EDTA, 5% glycerol, 1 mM DTT, and 1X HALT protease/phosphatase inhibitors. Protein concentration was measured using Bio-Rad Protein Assay Dye (cat # 5000006). SDS-PAGE samples were prepared by mixing 30 µL of protein extract with 10 µL 4x Laemmli buffer (0.25 M Tris HCl, pH 6.8, 8% SDS, 40% glycerol, 20% beta-mercaptoethanol, bromphenol blue) and heating at 95ºC for 5 min. SDS-PAGE and WB were performed and only low-molecular weight bands were visualized. Therefore, 20 µl of the prepared earlier SDS-PAGE samples were mixed with 30 µl of 2x Laemmli buffer with 8 M urea (8 M urea, 0.125 M Tris HCl, pH 6.8, 4% SDS, 20% glycerol, 10% beta-mercaptoethanol, bromphenol blue), so, the final urea concentration in the samples was 5.3 M. The samples were heated at 95ºC for 5 min, and SDS-PAGE was performed using 10 % acrylamide gel containing 8 M urea following blotting for 1.5 hrs to PVDF membrane (Immune-Blot PVDF Membranes for Protein Blotting, Bio-Rad, cat # 1620177, pore size of 0.2 µL), using wet transfer in the cold transfer buffer. The blot was blocked with 5 % dry non-fat milk for 1h/RT with agitation. The blot was incubated in the primary antibody at a 1: 1000 dilution ON/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. The blot was incubated in a matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 25 000 in TBS-T for 1 h/RT with agitation. The blot was washed as above and developed with the extremely low femtogram detection range chemiluminescent reagent. Exposure time was from 10 seconds to 1 minute.

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Courtesy of Natalia Moroz (Research Associate) at Washington State University), USA