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Product no AS23 4919

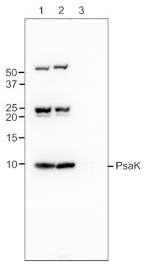
Anti-PsaK | PSI-K subunit of photosystem I

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* PsaK protein, UniProt: Q9SUI5 TAIR: AT1G30380
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen 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	13.2 | 8.5 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arachis hypogea, Brachypodium distachyon, Brassica napus, Cannabis sativa, Capsicum annuum, Dendrobium catenatum, Glycine max, Gossypium* sp.*, Hordeum vulgare, Magnolia sinica, Malus domestica, Manihot esculenta, Medicago truncatula, Nicotania tabacum, Oryza sativa, Phragmites australis, Physcomitrium patens, Pisum sativum, Populus* sp.*, Raphanus sativus, Ricinis communis, Solanum lycopercicum, Solanum tuberosum, Sorghum bicolor, Spinacia oleracea, Theobroma cacao, Triticum sp., Vitis vinifera, Zea mays* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	To be added when available, antibody available in June 2024.



Samples:
1 - Chloroplast samples corresponding to 1.0 µg chlorophyll of *Arabidopsis thaliana*
2 – Thylakoid membrane samples corresponding to 1.0 µg chlorophyll of *Arabidopsis thaliana*
3 – Stromal fraction samples corresponding to 1.0 µg chlorophyll of *Arabidopsis thaliana*
Mark: MW markers

Protein samples corresponding to 1.0 µg chlorophyll of chloroplasts extracted from *Arabidopsis thaliana*. Chloroplast samples were isolated with 20 mM Tricine–NaOH, pH 8.4, containing 400 mM sorbitol, 5 mM MgCl2, 5 mM MnCl2, 2 mM EDTA, 10 mM NaHCO3, 0.5% (w/v) bovine serum albumin (BSA) and 5 mM ascorbate: and denatured with exact buffer (62.5 mM Tris-HCl, pH 6.8, containing 2% (w/v) SDS, 10% (w/v) glycerol, 0.005% (w/v) bromophenol blue, and 50 mM dithiothreitol) at 95 °C/5 min. Samples were separated at RT on 10%-20% gradient gel and blotted for 0.5 h to PVDF (pore size of 0.2 µm), using: semi-dry transfer at RT. Blot was blocked with 5 % milk for: 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1,000 for 1h/RT with agitation in TBS-T. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602, Agrisera) diluted to 1: 25,000 in for 1h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent: AS16 ECL-N-10 AgriseraBright (mid picogram). Exposure time was 3 minutes.

Courtesy of Dr. Yuki Okegawa, Okayama University, Japan