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Product no AS22 4845

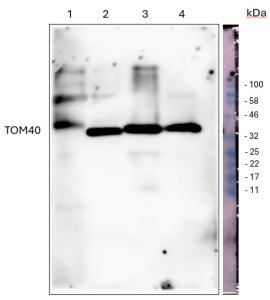
Anti-TOM40-1/2 | Mitochondrial import receptor subunit TOM40-1/2

Product information

Immunogen	KLH-conjugated, unique peptide derived from *Arabidopsis thaliana* TOM40-1 and TOM40-2 protein sequence. UniProt: Q9LHE5, Q9SX55 TAIR: AT1G50400, At1g50400
Host	Rabbit
Clonality	Polyclonal
Purity	Antigern 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 : 500 - 1: 2000 (WB)
Expected | apparent MW	32.5 | 34.6 kDa (Depending on isoform)
Confirmed reactivity	*Arabidopsis thaliana, Oryza sativa, Pisum sativum*
Predicted reactivity	*Brassica napus, Hordeum vulgare, Nicotiana tabacum, Solanum lycopersicum, Solanum tuberosum, 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 released in October 2024.



Samples:
1 - 50 ug of *Oryza sativa* seedling isolated mitochondria extract
2 - 50 ug of *Pisum sativum* seedling isolated mitochondria extract 3 - 50 ug of *Arabidopsis thaliana* cell culture isolated mitochondria extract
4 - 50 ug of *Arabidopsis thaliana* seedling isolated mitochondria extract Mark: Blue Protein Standard MW markers 50 µg/well of total protein extracted freshly from the seedlings of *Arabidopsis thaliana, Pisum sativum* and *Oryza sativa*. The mitochondria were extracted according to Murcha and Whelan (2015) mitochondria isolation protocol pages 1-12. Samples were separated in the cold on 14 % SDS-PAGE and blotted for 1 h to nitrocellulose (pore size of 0.45 um), using semi-dry method in the cold. Blot was blocked with 10 % skim milk for: 4°C/ON with agitation. Blot was incubated in the primary antibody at a dilution of 1: 500 in 1X TBS-Tween for 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. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 10 000 in 1X TBS-Tween for 1h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent. Exposure time was 10 minutes.
Mitochondria were extracted according to the method described here: MURCHA, M. W. & WHELAN, J. 2015. Isolation of Intact Mitochondria from the Model Plant Species Arabidopsis thaliana and Oryza sativa. In: WHELAN, J. & MURCHA, M. W. (eds.) Plant Mitochondria: Methods and Protocols. New York, NY: Springer New York.

Courtesy of Valencia Marisa, The University of Western Australia, Australia