

This product is for research use only (not for diagnostic or therapeutic use)

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS08 351

Toc75 | Protein TOC75-3, chloroplastic, POTRA domain 3

Product information

Pisum sativum TOC75; Predicted POTRA Domain #3; Expressed and purified in E. coli using the Impact System from Immunogen NEB. Peptide confirmed by MALDI. UniProt: Q43715

Host Rabbit

Clonality Polyclonal

Purity Serum

Format Lyophilized

Quantity 50 ul

Reconstitution For reconstitution add 50 μl of sterile water

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please Storage 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.

Application information

Recommended dilution 1:500 (Flow cyt), 1:100 (IL), 1:2000-1:100 000 (WB)

Expected | apparent

88 | 75 kDa (ocassionally a processing intermediate at 78 kDa is observed)

Confirmed reactivity

Arabidopsis thaliana, Nicotiana benthamiana, Nicotiana tabacum, Physcomitrium patens, Pisum sativum, Spinacia oleracea, Thellungiella salsuginea, some cross-reactivity was observed for cyanobacteria including: Synechocystis, Synechococcus and Thermosynechococcus sp.

Predicted reactivity

Aegilops tauschii, Ananas comosus, Anthurium amnicola, Capsicum annuum, Catalpa bungei, Cicer arietinum, Cucumis melo, Glycine soja, Gossypium arboreum, Medicago truncatula, Morus notabilis, Nelumbo nucifera, Nicotiana sylvestris, Noccaea caerulescens, Populus trichocarpa, Ricinus communis, Sorghum bicolor, Theobroma cacao, Zea mays, Zostera marina, Vigna radiata, Vitis vinifera Species of your interest not listed? Contact us

Not reactive in No confirmed exceptions from predicted reactivity are currently known

Additional information Antibody detects Toc75 POTRA domain 3 as purified protein, in chloroplast fraction and in crude envelope fraction

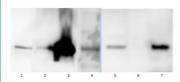
Selected references

Sasaki and Yamamoto (2015). Arabidopsis LAZY1 is a peripheral membrane protein of which the carboxy-terminal fragment potentially interacts with microtubules. Copyright © 2015 The Japanese Society for Plant Cell and Molecular Biology, Plant Biotechnology, 32, 1-6 (2015) DOI: 10.5511/plantbiotechnology.15.0116a

Vera-Estrella et al. (2014). Comparative 2D-DIGE analysis of salinity responsive microsomal proteins from leaves of salt-sensitive Arabidopsis thaliana and salt-tolerant Thellungiella salsuginea. J Proteomics. 2014 Jun 2. pii: \$1874-3919(14)00288-7. doi: 10.1016/j.jprot.2014.05.018.

Hsueh et al. (2014). The chloroplast outer envelope protein P39 in Arabidopsis thaliana belongs to the Omp85 protein family. Proteins. 2014 Nov 17. doi: 10.1002/prot.24725.

Application example



Samples of crude Arabidopsis thaliana chloroplast preparation from 250xg pellet (1), unknown sample (2), Arabidopsis thaliana 100kDa membrane preparation (3), prestained marker 80kDa band (NEB Broad Range) (4), Physcomitrella patens 'broken' chloroplasts from above 40% on Percoll gradient (5), unknown sample (6), Physcomitrella patens intact chloroplasts from above 80% on Percoll gradient (7) were blotted to PVDF membrane. Blot was incubated overnight at 4°C in 5% milk powder in Tris Buffered Saline (TBS), rinsed twice and then washed for 3 x 15 min in TBS+ 0.1%Tween20 (TBS-T). Incubation in anti-Toc75 POTRA3 antibody was done for 2h/RT using 8µl antibody per 10 ml 3% milk powder in TBS-T. Washes: 3 x 15 min in TBS+ 0.1%Tween20 (TBS-T). Incubation in goat anti-rabbit peroxidase secondary antibody was for 1h at room temperature and used 4µl antibody per 10ml 3% milk powder in TBS-T. Washes: 3 x 15 min in TBS+ 0.1%Tween20 (TBS-T) followed by incubation with chemiluminescence detection reagent and exposure for 10 min or 2min in an ImageQuant LAS4000 (lanes 1-3 and 5-7, respectively).

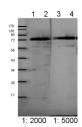


This product is for research use only (not for diagnostic or therapeutic use)

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Courtesy Dr. Amanda Dowson, Warwick University, UK



580 ng of Chl of *Pisum sativum* plants (10 day old) **(2, 4)** and 10 μg of combined envelopes of *Pisum sativum* 10 day-old **(1,3)** were separated on 15% SDS-PAGE and blotted 2h to PVDF. PVDF was blocked 1h with 3% non-fat milk powder in TBS-T (0.1% TWEEN 20) and probed with anti-Toc75 POTRA domain 3 antibodies AS08 351 (1:2000 and 1: 5000, 1h) and secondary donkey-anti-rabbit (1:20000, 1 h) antibody (HRP conjugated) in TBS-T containing 3% non fat milk powder. Antibody incubations were followed by washings in TBS-T. All steps were performed at RT with agitation. Blots were developed for 5 min with chemiluminescence detection reagent according to the manufacturers instructions. Exposure time was 600 seconds.

Ashita Dave and Barry D. Bruce (UTK), USA