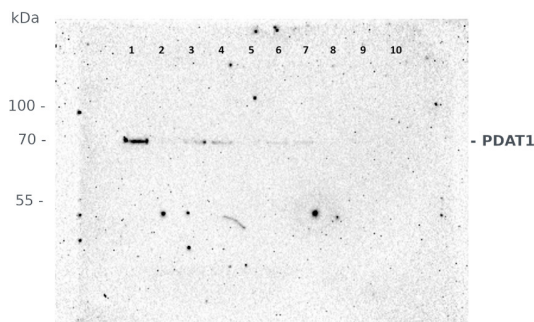


Product no **AS24 5005****Anti-PDAT1 | Phospholipid diacylglycerol acyltransferase****Product information**

| | |
|-----------------------|---|
| Immunogen | KLH-conjugated peptide derived from PDAT1 protein sequence of <i>Arabidopsis thaliana</i> , UniProt: A0A178UJJ4 GeneID: AT5G13640 |
| 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** | 74 kDa**Confirmed reactivity** | *Arabidopsis thaliana*

Predicted reactivity | *Arachis hypogaea*, *Capsicum annuum*, *Brachypodium distachyon*, *Brassica napus*, *Cannabis sativa*, *Citrus sp.*, *Glycine max*, *Gossypium sp.*, *Hordeum vulgare*, *Malus domestica*, *Manihot esculenta*, *Medicago truncatula*, *Nicotiana tabacum*, *Oryza sativa*, *Phaseolus vulgaris*, *Pisum sativum*, *Populus sp.*, *Ricinus communis*, *Solanum lycopersicum*, *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 release in April 2026.**Samples:**

- 1- *Arabidopsis thaliana* WT, 40 µg of protein/well
- 2- *Arabidopsis thaliana* KO knockout mutant, 40 µg of protein/well
- 3- *Arabidopsis thaliana* PDAT1 OE overexpressor, 20 µg of protein/well
- 4- *Arabidopsis thaliana* WT, 20 µg of protein/well
- 5- *Arabidopsis thaliana* KO knockout mutant, 20 µg protein/well
- 6- *Arabidopsis thaliana* PDAT1 OE overexpressor, 10 µg protein/well
- 7 - *Arabidopsis thaliana* WT, 10 µg protein/well
- 8 - *Arabidopsis thaliana* KO knockout mutant, 10 µg protein/well
- 9 - *Arabidopsis thaliana* WT, 5 µg protein/well
- 10 - *Arabidopsis thaliana* KO knockout mutant, 5 µg protein/well

Total protein extracted freshly from *Arabidopsis thaliana* leaves. Exact buffer components were: 4 M urea, 1 0mM DTT, 0.1% Triton-100 and

samples were denatured with 4xNuPAGE LDS Sample Buffer (ThermoFisher #NP007) at 65°C for 20 min. Samples were separated on NuPAGE™ Bis-Tris Mini Protein Gels, 4–12% (ThermoFisher #NP0322BOX) and blotted for 1h to nitrocellulose (pore size of 0.45 µm) using: wet transfer in the cold. Blot was blocked with 5 % milk in TBS 4 °C/ON with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 for 1.5h/RT with agitation in 5% milk in TBS with agitation. The antibody solution was decanted, and the blot was washed twice for 10 min in TBS-T at RT with agitation and twice for 10 min in TBS 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 5% milk in TBS for 1h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent. Exposure time was at least 5 minutes.

Extraction buffer needs to contain 4 M urea, combined with protein load/well of 40 µg. PDAT1 knockout mutant is described in this publication [Piróg et al. \(2025\)](#).

Courtesy of Dr. Sylwia Klińska-Bąchor, Intercollegiate Faculty of Biotechnology UG&MUG, Laboratory of Plant Biochemistry, University of Gdańsk, Poland