

Agrisera

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

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Product no **AS10 674**
FER | Ferritin (plant)

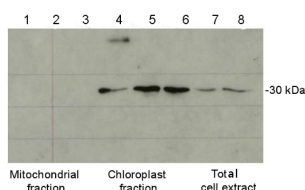
Product information

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|-----------------------|---|
| Immunogen | KLH-conjugated synthetic peptide derived from known plant ferritin sequences including <i>Arabidopsis thaliana</i> : ferritin-1 (chloroplastic), UniProt: Q39101 , TAIR: AT5G01600 ; ferritin-2(expressed in roots), UniProt: Q9SRL5 , TAIR: AT3G11050 , ferritin-3 (chloroplastic), UniProt: Q9LYN2 , TAIR: AT3G56090 ; ferritin-4 (chloroplastic), UniProt: Q9S756 , TAIR: AT2G40300 (sequence identity 80 %) |
| Host | Rabbit |
| Clonality | Polyclonal |
| Purity | Serum |
| Format | Lyophilized |
| Quantity | 200 µl |
| Reconstitution | For reconstitution add 200 µl of sterile 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 : 3000 (WB) |
| Expected apparent MW | 28 30 kDa |
| Confirmed reactivity | <i>Arabidopsis thaliana</i> , <i>Cucumis sativus</i> |
| Predicted reactivity | <i>Hordeum vulgare</i> , <i>Musa sp.</i> , <i>Oryza sativa</i> , <i>Phaseolus vulgaris</i> , <i>Physcomitrella patens</i> , <i>Solanum tuberosum</i> , <i>Ricinus communis</i> , <i>Triticum aestivum</i> , <i>Zea mays</i> |
| | Species of your interest not listed? Contact us |
| Not reactive in | <i>Lemna minor</i> , <i>Ostreococcus tauri</i> |
| Additional information | Antibody is recognizing a chloroplastic form of plant ferritin For high resolution images, please visit the specific product page at www.agrisera.com |
| Selected references | Kovács et al. (2016) . Revisiting the iron pools in cucumber roots: identification and localization. <i>Planta</i> . 2016 Jul;244(1):167-79. doi: 10.1007/s00425-016-2502-x. Epub 2016 Mar 22. |

Application example



10 µg of total protein from *Arabidopsis thaliana* whole seedlings, various cellular fractions, extracted with (see below*) were separated on 15 % SDS-PAGE and blotted 1h to PVDF. Blots were blocked with 5% Non fat dairy milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 3000 overnight at 4 °C with agitation. The antibody solution was decanted and the blot was washed four times for 5 min in PBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera [AS09 602](#)) diluted to 1:15 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min

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with ECL according to the manufacturers instructions. Exposure time was 180 seconds.

*Following is the protein extraction buffer composition that was used to extract the total protein from the whole seedlings: 50mM Tris, 4% SDS, 1% PVPP, 5% Glycerol, 1mM PMSF, 2mM Pefabloc.

Courtesy of Anshika Jain and Erin Connolly, University of South Carolina, USA