

Product no **AS05 093****PrxQ | Peroxiredoxin, thioredoxin reductase****Product information**

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| Immunogen | His-tagged full length protein (with presequence) of <i>Arabidopsis thaliana</i> was overexpressed in in <i>E.coli</i> . Isolated with HiTrap column (GE Healthcare) Q9LU86 , At3g26060 |
| 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 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. |
| Additional information | This product can be sold containing proclin if requested |

Application information

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| Recommended dilution | 1 : 5000 (WB) |
| Expected apparent MW | 16 kDa |
| Confirmed reactivity | <i>Arabidopsis thaliana</i> , <i>Manihot esculenta</i> , <i>Spinacia oleracea</i> , <i>Zea mays</i> |
| Predicted reactivity | <i>Marchantia polymorpha</i> , <i>Populus sp.</i> , <i>Triticum aestivum</i> , <i>Oryza sativa</i> Species of your interest not listed? Contact us |
| Not reactive in | No confirmed exceptions from predicted reactivity are currently known |
| Additional information | In stroma fractions a weak background reaction at 28 kDa is visible, No crossreactivity in any thylakoid fractions |
| Selected references | Okegawa et al. (2023) . x- and y-type thioredoxins maintain redox homeostasis on photosystem I acceptor side under fluctuating light. <i>Plant Physiol.</i> 2023 Nov 22;193(4):2498-2512.doi: 10.1093/plphys/kiad466. Yoshida et al. (2018) . Thioredoxin-like2/2-Cys peroxiredoxin redox cascade supports oxidative thiol modulation in chloroplasts. <i>Proc Natl Acad Sci U S A.</i> 2018 Aug 13. pii: 201808284. doi: 10.1073/pnas.1808284115. Yoshida et al. (2016) . Hisabori T1.Two distinct redox cascades cooperatively regulate chloroplast functions and sustain plant viability. <i>Proc Natl Acad Sci U S A.</i> 2016 Jul 5;113(27):E3967-76. doi: 10.1073/pnas.1604101113. Epub 2016 Jun 22. Yoshida et al. (2015) . Thioredoxin Selectivity for Thiol-Based Redox Regulation of Target Proteins in Chloroplasts. <i>J Biol Chem.</i> 2015 Apr 15. pii: jbc.M115.647545. Feifei et al. (2014) . Comparison of Leaf Proteomes of Cassava (<i>Manihot esculenta</i> Crantz) Cultivar NZ199 Diploid and Autotetraploid Genotypes. <i>PLoS One.</i> 2014 Apr 11;9(4):e85991. doi: 10.1371/journal.pone.0085991. eCollection 2014. Wu et al. (2013) . Proteomic and Phytohormone Analysis of the Response of Maize (<i>Zea mays</i> L.) Seedlings to Sugarcane Mosaic Virus. <i>PLoS One.</i> July 23;8(7). |