

Product no **AS07 260-ALP****H+ATPase | Plasma membrane H+ATPase (rabbit antibody), ALP-conjugated (40 µg)****Product information**

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| Immunogen | KLH-conjugated synthetic peptide, derived from available di and monocot, fern, mosses and algal plasma membrane ATPase sequences including <i>Arabidopsis thaliana</i> ATPase 1 (UniProt: P20649 , TAIR: At2g18960) and ATPase 2 (UniProt: P19456 , TAIR: At4g30190), 3 (UniProt: P20431 , TAIR: At5g57350), 4 (UniProt: Q9SU58 , TAIR: At3g47950), 6 (UniProt: Q9SH76 , TAIR: At2g07560), 7 (UniProt: Q9LY32 , TAIR: At3g60330), 8 (UniProt: Q9M2A0 , TAIR: At3g42640), 9 (UniProt: Q42556 , TAIR: At1g80660), 11 (UniProt: Q9LV11 , TAIR: At5g62670) of <i>Arabidopsis thaliana</i> and hydrogen ATPase of <i>Chlamydomonas reinhardtii</i> (Q9FNS3) |
| Host | Rabbit |
| Clonality | Polyclonal |
| Purity | Antigen affinity purified serum in PBS pH 7.4, conjugated to ALP. |
| Format | Liquid |
| Quantity | 40 µg |
| Storage | Store at 4°C for 12-18 months. A preservative may be added for long time storage up to 2 years. |
| Additional information | Cellular [compartment marker] for plasma membrane |

Application information

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| Recommended dilution | 1 : 100 (IL), 1 : 1000-1 : 5000 (WB) |
| Expected apparent MW | 90- 95 kDa (<i>Arabidopsis thaliana</i> , depending upon an isoform) |
| Confirmed reactivity | <i>Actinidia chinensis</i> , <i>Aesculus hippocastanum</i> , <i>Arabidopsis thaliana</i> , <i>Camellia sinensis</i> cv. Shu-chazao, <i>Chara australis</i> R.Br, <i>Chlamydomonas reinhardtii</i> , <i>Cucumis sativus</i> , <i>Cucurbita moschata</i> , <i>Glycine max</i> , <i>Kandelia obovata</i> , <i>Hordeum vulgare</i> , <i>Lolium perenne</i> , <i>Lycopersicon esculentum</i> , <i>Malus x domestica</i> Borkh. c.v. Fuji, <i>Marchantia polymorpha</i> , <i>Medicago truncatula</i> , <i>Nicotiana benthamiana</i> , <i>Nicotiana tabacum</i> , <i>Noccaea caerulea</i> , <i>Oryza sativa</i> , <i>Petunia hybrida</i> , <i>Phalenopsis Sogo Yukidian cultivar V3</i> , <i>Physcomitrium patens</i> , <i>Picea abies</i> , <i>Pisum sativum</i> , <i>Populus tremula</i> , <i>Pteris vittata</i> (fern), <i>Ricinus communis</i> , <i>Spinacia oleracea</i> , <i>Solanum lycopersicum</i> , <i>Tagetes erecta</i> , <i>Tetraselmis chuii</i> , <i>Zea mays</i> , <i>Vicia faba</i> |
| Predicted reactivity | Algae, <i>Amaranthus hypochondriacus</i> , <i>Avena sativa</i> , <i>Beta vulgaris</i> , <i>Cyanidioschyzon merolae</i> , <i>Dunaliella</i> spp., <i>Gossypium hirsutum</i> , <i>Hordeum vulgare</i> , <i>Ostreococcus</i> spp., <i>Pinus thunbergii</i> , <i>Physcomitrella patens</i> , <i>Mesembryanthemum crystallinum</i> , <i>Mortierella elongata</i> , <i>Nannochloropsis gaditana</i> CCMP526, <i>Ostreococcus tauri</i> , <i>Prosopis alba</i> , <i>Saccharomyces cerevisiae</i> , <i>Solanum tuberosum</i> , <i>Sorghum bicolor</i> , <i>Spinacia oleracea</i> , <i>Triticum aestivum</i> , <i>Ulva prolifera</i> , <i>Ustilago maydis</i> |
| | Species of your interest not listed? Contact us |
| Not reactive in | <i>Allium</i> sp., <i>Aspergillus niger</i> , <i>Citrus limon</i> , <i>Colobanthus apetala</i> , <i>Cuminum cyminum</i> , <i>Curcuma amada</i> , <i>Deschampsia antractica</i> , <i>Lupinus luteus</i> , <i>Morinda citrifolia</i> , <i>Trigonella foenum</i> , <i>Vicia faba</i> |
| Additional information | VERY IMPORTANT: Please, do not heat up your samples above 70°C as this may cause H+ATPase to precipitate, and there will be no signal on your Western Blot. Before SDS-PAGE, centrifuge your samples at room temperature at 10 000 rpm/1 min to remove any aggregates. H+ATPase will be less abundant in mature roots and leaves, and therefore detection may require use of very sensitive reagents. |
| Selected references | To be added when available. Antibody released in October 2023. |