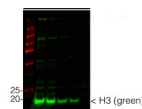


Product no **AS15 2855****H3 | Histone H3 (chicken antibody)****Product information**

|                               |  |
|-------------------------------|--|
| <b>Immunogen</b>              | KLH-conjugated synthetic peptide derived from known H3 sequences, including <i>Arabidopsis thaliana</i> H3.3 <a href="#">P59169</a> ( <a href="#">At4g40030</a> , <a href="#">At4g40040</a> , <a href="#">At5g10980</a> ), H3.2 <a href="#">P59226</a> ( <a href="#">At1g09200</a> , <a href="#">At3g27360</a> , <a href="#">At5g10390</a> , <a href="#">At5g10400</a> , <a href="#">At5g65360</a> ), H3-like 2 <a href="#">Q9FXI7</a> ( <a href="#">At1g19890</a> ) |
| <b>Host</b>                   | Chicken  |
| <b>Clonality</b>              | Polyclonal   |
| <b>Purity</b>                 | Purified, total IgY (chicken egg yolk immunoglobulin) in PBS pH 8. Contains 0.02 % sodium azide.   |
| <b>Format</b>                 | Liquid   |
| <b>Quantity</b>               | 50 µl  |
| <b>Storage</b>                | Store at 4°C. 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.   |
| <b>Additional information</b> | Cellular [compartment marker] of nucleoplasm, loading control antibody for <i>Chlamydomonas reinhardtii</i>  |

**Application information**

|                               |   |
|-------------------------------|---|
| <b>Recommended dilution</b>   | 1 : 2500 (WB)   |
| <b>Expected   apparent MW</b> | 15   17 kDa   |
| <b>Confirmed reactivity</b>   | <i>Arabidopsis thaliana</i> , <i>Chlamydomonas reinhardtii</i> , <i>Lycopersicon esculentum</i> , <i>Triticum aestivum</i>  |
| <b>Predicted reactivity</b>   | <i>Arabidopsis thaliana</i> , <i>Brassica napus</i> , <i>Brassica oleracea</i> , <i>Capsicum annuum</i> , <i>Chlamydomonas acidophila</i> , <i>Galdieria sulphuraria</i> , <i>Hordeum vulgare</i> , <i>Medicago sativa</i> , <i>Nannochloropsis gaditana</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Physcomitrium patens</i> , <i>Pinus pinaster</i> , <i>Pisum sativum</i> , <i>Salicornia europaea</i> , <i>Solanum lycopersicum</i> , <i>Solanum sogarandinum</i> , <i>Solanum tuberosum</i> , <i>Triticum aestivum</i> , <i>Zea mays</i> , <i>Vicia faba</i> , <i>Vitis vinifera</i> , <i>Volvox sp.</i> |
|                               | Species of your interest not listed? <a href="#">Contact us</a>   |
| <b>Not reactive in</b>        | No confirmed exceptions from predicted reactivity are currently known   |
| <b>Selected references</b>    | <a href="#">Loudya et al. (2021)</a> Cellular and transcriptomic analyses reveal two-staged chloroplast biogenesis underpinning photosynthesis build-up in the wheat leaf. <i>Genome Biol.</i> 2021 May 11;22(1):151. doi: 10.1186/s13059-021-02366-3. PMID: 33975629; PMCID: PMC8111775.<br><a href="#">Chung et al. (2019)</a> Distinct roles of Argonaute in the green alga <i>Chlamydomonas</i> reveal evolutionary conserved mode of miRNA-mediated gene expression. <i>Sci Rep.</i> 2019 Jul 31;9(1):11091. doi: 10.1038/s41598-019-47415-x.  |

**Application example**

From left to right: 2 wells of nuclear + cytoplasmic enriched protein, 2 wells of total proteins of *Chlamydomonas reinhardtii* protein saturated in 8M urea were separated on 15% SDS-PAGE and blotted for 1 hour to 0.2 µm nitrocellulose at 100V using wet transfer system. Blots were blocked with 0.5% cold fish gelatin for 1hr at room temp with agitation. Blot was incubated in the primary antibody (anti-H3) at a dilution of 1:2500 for an hour at RT with agitation. The blots were washed with 3X 15min TBS-TT at RT with agitation. Blots as incubated in the secondary antibody ([AS11 182Z](#), Goat anti-Chicken IgY (H&L), DyLight® 800 conjugated, Agrisera) 1:5000 dilution for 30min at RT with agitation and washed 1X with TBST for 15min, 1X with TBST for 15min before scanning with the ODyssey IRD scanner.

Courtesy of Dr. Betty Chung, University of Cambridge, United Kingdom