



product **AS08 277**  
**APC | allophycocyanin alpha and beta**

**product information**

<b>background</b>	<b>Allophycocyanin</b> is a protein of the light-harvesting phycobiliprotein family of red algae and cyanobacteria. It is an accessory pigment to chlorophyll A located in the core of the phycobilisome, and its strong spectral overlap with chlorophyll facilitates energy transfer for photosynthesis.
<b>immunogen</b>	native allophycocyanin alpha and beta purified from <i>Porphyridium cruentum</i> phycobilisomes
<b>antibody format</b>	rabbit polyclonal serum lyophilized
<b>quantity</b>	200 µl for reconstitution add 200 µl of sterile water.
<b>storage</b>	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.
<b>tested applications</b>	western blot (WB)
<b>additional information</b>	to be added when available

**application information**

<b>recommended dilution</b>	1:1500 - 3000 with standard ECL (WB)
<b>expected   apparent MW</b>	14-19 kDa
<b>confirmed reactivity</b>	<i>Porphyridium cruentum</i> , <i>Synechocystis</i> PCC 6803
<b>predicted reactivity</b>	red algae, cyanobacteria
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	to be added when available
<b>selected references</b>	<u>Hernandez-Prieto</u> et al. (2011). The small CAB-like proteins of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803: Their involvement in chlorophyll biogenesis for Photosystem II. <i>Bioch.Bioph. Acta</i> . <u>Gantt &amp; Lipschultz</u> (1974). Phycobilisomes of <i>Porphyridium cruentum</i> : Pigment Analysis. <i>Biochem.</i> 13:2960. <u>Gantt E &amp; C Lipschultz</u> (1977). Probing phycobilisome structure by immuno-electron microscopy. <i>J Phycol.</i> 13:18

