

Product no **AS18 4168****Anti-ELF3 | Early Flowering 3****Product information**

Immunogen	KLH-conjugated peptide derived from <i>Arabidopsis thaliana</i> ELF3, UniProt: O82804-1 , TAIR: At2g25930
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 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.

Application information

Recommended dilution	3 µl of antibody (ChIP), 3 µl of antibody used for coating 2x20 µl Dynabeads A+G (IP), 1 : 1000 (WB)
Expected apparent MW	77 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Brachypodium distachyon</i> , <i>Oryza sativa</i> , <i>Solanum tuberosum</i> (leaf)
Predicted reactivity	<i>Brassica rapa</i> , <i>Cucurbita moschata</i> , <i>Corchorus olitorius</i> , <i>Durio zibethinus</i> , <i>Hevea brasiliensis</i> , <i>Herrania umbratica</i> , <i>Hordeum vulgare</i> , <i>Manihot esculenta</i> , <i>Nymphaea thermarum</i> , <i>Olea europaea</i> var. <i>sylvestris</i> , <i>Panicum miliaceum</i> , <i>Phoenix dactylifera</i> , <i>Pisum sativum</i> , <i>Populus euphratica</i> , <i>Prunus dulcis</i> , <i>Populus tremula</i> , <i>Ricinus communis</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i> , <i>Sorghum bicolor</i> , <i>Spinacia oleracea</i> , <i>Tanacetum cinerariifolium</i> , <i>Theobroma cacao</i> , <i>Trifolium pratense</i> , <i>Triticum aestivum</i> , <i>Zea mays</i> , <i>Vitis vinifera</i> Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	ELF3 protein is extremely sensitive to light therefore extraction has to be done in green light and protein analysis has to be done using fresh extracts only. Even short light exposure cause degradation of ELF3. Extracted protein cannot be frozen but analysed directly following extraction. Antibody is confirmed to work in ChIP for <i>Oryza sativa</i> <i>Nippon bare</i> . Antibody is recognizing all three isoforms in tomato: Solyc08g065870.4.1: Theoretical pI/Mw: 8.71 / 70659.09 Da Solyc11g070100.2.1: Theoretical pI/Mw: 8.94 / 66714.77 Da Solyc12g095900.2.1: Theoretical pI/Mw: 8.80 / 79108.57 Da
Selected references	Gao et al. (2023) . Phytochromes transmit photoperiod information via the evening complex in <i>Brachypodium</i> . <i>Genome Biol.</i> 2023 Nov 7;24(1):256. doi: 10.1186/s13059-023-03082-w. Seo et al. (2023) ZTL regulates thermomorphogenesis through TOC1 and PRR5 [published online ahead of print, 2023 Jan 19]. <i>Plant Cell Environ.</i> 2023;10.1111/pce.14542. doi:10.1111/pce.14542 Andrade, Lu, Cordeiro, et al. (2022) The evening complex integrates photoperiod signals to control flowering in rice. <i>Proc Natl Acad Sci U S A.</i> 2022;119(26):e2122582119. doi:10.1073/pnas.2122582119 Andrade et al. (2022) The evening complex integrates photoperiod signals to control flowering in rice. <i>Proc Natl Acad Sci U S A.</i> 2022 Jun 28;119(26):e2122582119. doi: 10.1073/pnas.2122582119. Epub 2022 Jun 21. PMID: 35733265; PMCID: PMC9245669.