

Product no **AS16 3213****Anti-CK2 beta | Casein kinase 2 subunit beta****Product information**

Immunogen	KLH-conjugated synthetic peptide specific for <i>Arabidopsis thaliana</i> CK2 beta subunit beta-1 UniProt: P40228 TAIR: At5g47080 , subunit beta-2 UniProt: P40229 , TAIR: At4g17640 , subunit beta-3 UniProt: O81275 , TAIR: At3g60250 , subunit beta-4 UniProt: O80507 , TAIR: At2g44680
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS, pH 7.4
Format	Lyophilized
Quantity	50 µg
Storage	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.

Application information

Recommended dilution	1: 2000 (WB)
Expected apparent MW	63.2 44 kDa (on urea gel), 55 kDa (no urea)
Confirmed reactivity	To be determined
Predicted reactivity	<i>Arabidopsis thaliana</i> , <i>Nicotiana tabacum</i> dicots including: <i>Ricinus communis</i> , <i>Vitis vinifera</i> , monocots including: <i>Oryza sativa</i> , <i>Zea mays</i>
Not reactive in	<i>Chlamydomonas reinhardtii</i>
Additional information	For best results with this antibody sample buffer needs to contain 6 M urea (138mM TrisHCl pH 6.8, 6M urea , 22.2% Glycerol, 4.3% SDS). STN7 is a nuclear encoded protein which is localized in chloroplast, hence posses a chloroplastic target peptides (cTP) at the beginning of the amino acid sequence which is cut off. According to TargetP (program that predicts the length of the cTP:s) the length of cTP for Stn7 is 45aa. STN7 protein mobility can be also affected by urea present in the gel.
Selected references	Mekala et al. (2015). Plants actively avoid state-transitions upon changes in light intensity - role of light-harvesting complex II protein dephosphorylation in high light. <i>Plant Physiol.</i> 2015 Apr 22. pii: pp.00488.2015. Flood et al. (2014). Natural variation in phosphorylation of photosystem II proteins in <i>Arabidopsis thaliana</i> : is it caused by genetic variation in the STN kinases? <i>Philos Trans R Soc Lond B Biol Sci.</i> 2014 Mar 3;369(1640):20130499. doi: 10.1098/rstb.2013.0499. Print 2014. Yin et al. (2012). Photosystem II Function and Dynamics in Three Widely Used <i>Arabidopsis thaliana</i> Accessions. <i>PLOS ONE</i> , open access.