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Product no AS13 2725

Anti-SVR4 | Supressor of variegation 4

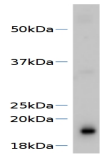
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* SVR4, UniProt Q9M0H2, TAIR: At4g28590
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
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.
Additional information	This protein is present in very low amounts only in early stages of plant development and this has to be taken into account when harvesting the tissue. Western blots were done on: *Arabidopsis thaliana* total protein extract from cotyledons and *Hordeum vulgare* (2-14 days old plants).

Application information

Recommended dilution	1 : 1000-1 : 5000 (WB)
Expected | apparent MW	34.8 | 19 kDa
Confirmed reactivity	*Arabidopsis thaliana, Hordeum vulgare, Triticum aestivum*
Predicted reactivity	Species of your interest not listed? Contact us
Selected references	Loudya et al. (2021) Cellular and transcriptomic analyses reveal two-staged chloroplast biogenesis underpinning photosynthesis build-up in the wheat leaf. Genome Biol. 2021 May 11;22(1):151. doi: 10.1186/s13059-021-02366-3. PMID: 33975629; PMCID: PMC8111775. Powikrowska et al. (2013). SVR4 of variegation 4 and SVR4-like two proteins with a role in proper organization of the chloroplast genetic machinery. Physiol Plant. Sep 23. doi: 10.1111/ppl.12108.

Application example



SVR4 antibody tested on thylakoids isolated from 1 week old barley. Thylakoids were isolated from 1 week old Hordeum vulgare plants. The sample corresponding to 3ug Chl was separated on 12% Criterion XT Bis-Tris SDS-PAGE (BioRad) gels and blotted for 25min 100V to PVDF membrane. Blot was blocked with 5% fat free skimmed milk in PBS-T for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 overnight with agitation in 4˚C. The antibody solution was decanted and the blot was washed 3 times for 5 min in PBS-T at RT with agitation. Blot was incubated in secondary antibody (swine anti-rabbit IgG horse radish peroxidase conjugated, from Dako) diluted to 1: 5000 in 1% fat free skimmed milk in PBS-T for 1h at RT with agitation. The blot was washed 5 min in PBS-T and 1 min in PBS developed for 5 min with ECL according to the manufacturers instructions. Exposure time was 10 min.

Courtesy of Dr. Małgorzata Powikrowska, University of Copenhagen, Danmark