

Product no **AS13 2725****Anti-SVR4 | Suppressor 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 3 µg Chl was separated on 12% Criterion XT Bis-Tris SDS-PAGE (BioRad) gels and blotted for 25 min 100V to PVDF membrane. Blot was blocked with 5% fat free skimmed milk in PBS-T for 1 h 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 1 h 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, Denmark