

Agrisera

This product is **for research use only** (not for diagnostic or therapeutic use)

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product **AS13 2725**

SVR4 | Suppressor of variegation 4

product information

Background	SVR4 (Suppressor of variegation 4) is a nuclear-encoded chloroplast-located protein required for proper function of the plastid transcriptional machinery. Synonymes: ATECB1, EARLY CHLOROPLAST BIOGENESIS 1, ECB1, MESOPHYLL-CELL RNAI LIBRARY LINE 7, MRL7.
Immunogen	<u>KLH</u> -conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> 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 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.
Tested applications	Western blot (WB)
Related products	AS13 2726 SVR4-like Suppressor of variegation 4 - like, rabbit antibody Plant protein extraction buffer Secondary antibodies
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: <i>Arabidopsis thaliana</i> total protein extract from cotyledons and <i>Hordeum vulgare</i> (2-14 days old plants).

Application information

Recommended dilution	1 : 1000-1 : 5000 (WB)
Expected apparent MW	34.8 19 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i>
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Selected references	Powikrowska et al. (2013). SVR4 of variegation 4 and SVR4-like two proteins with a role in proper organization of the chloroplast genetic machinery. <i>Physiol Plant</i> . Sep 23. doi: 10.1111/ppl.12108.

application example

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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 μ g 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, Denmark