

product **AS13 2726**

SVR4-like | Suppressor of variegation 4 - like

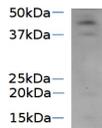
product information

background	SVR4-like (Suppressor of variegation 4-like) is a homolog of SVR4. It is a nuclear-encoded chloroplast-located protein required for proper function of the plastid transcriptional machinery. Synonyms: MRL7-like, MESOPHYLL-CELL RNAI LIBRARY LINE 7-LIKE, MRL7-L.
immunogen	<u>KLH</u> -conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> SVR4-like protein sequence, UniProt: Q84RF5 , TAIR: At2g31840
antibody format	rabbit polyclonal serum lyophilized
quantity	50 µl 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 2725 SVR4 Suppressor of variegation 4, rabbit 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 with standard ECL (WB)
expected apparent MW	40 42 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i>
predicted reactivity	please, inquire
not reactive in	no confirmed exceptions from predicted reactivity are currently known
additional information	
selected references	Powikrowska et al. (2013) . SVR4 (suppressor 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



SVR4-like antibody tested on intact chloroplasts isolated from one week old barley. Intact chloroplasts were isolated from 1 week old *Hordeum vulgare* plants. The sample corresponding to 4 μ g Chl and 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 20 min.

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