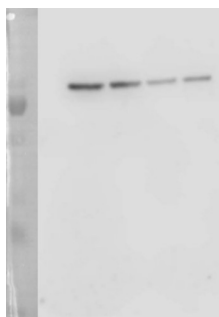


Product no **AS15 2903****TKL1 | transketolase (chloroplastic)****Product information**

<b>Immunogen</b>	Purified, recombinant mature TKL1 of <i>Arabidopsis thaliana</i> , UniProt: <a href="#">Q8RWV0</a> , TAIR: <a href="#">At3g60750</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µl
<b>Reconstitution</b>	For reconstitution add 45 µl of sterile water
<b>Storage</b>	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.

**Application information**

<b>Recommended dilution</b>	1 : 2000 (WB)
<b>Expected   apparent MW</b>	72 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Pisum sativum</i>
<b>Predicted reactivity</b>	<i>Cucumis sativus</i> , <i>Synechococcus elongatus</i> sp PCC 7942 Species of your interest not listed? <a href="#">Contact us</a>
<b>Additional information</b>	TKL1 has MW of 79.28 kDa with and 73.45 kDa without presequence; about 72 kDa on SDS gel  Antibody works on whole leaf extracts and isolated chloroplasts and is also recognizing recombinant TKL protein.  This product contains 10% glycerol and might appear as liquid but is provided lyophilized.
<b>Selected references</b>	<a href="#">Rocha et al. (2014)</a> . Phosphorylation of Arabidopsis transketolase at Ser428 provides a potential paradigm for the metabolic control of chloroplast carbon metabolism. <i>Biochem J.</i> 2014 Mar 1;458(2):313-22. doi: 10.1042/BJ20130631.

**application example**

Approximately 1 µg (in dilution series) of total soluble (stromal) protein of *Arabidopsis thaliana* extracted from isolated chloroplasts using a buffer containing 10% glycerol, 200 mM NaCl, protease inhibitor and 1 mM DTT. Samples were denatured at 96°C for 3 min and were separated on 10% SDS-PAGE and blotted for 45 min to PVDF using semi-dry transfer. Blots were blocked with TBST with 5% milk powder (0.02% Tween 20) for 1 h at room temperature (RT). Blot was incubated in the primary antibody at a dilution of 1:5000 for overnight at 4°C with agitation in TBST with 5% milk powder. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 3 times for 10 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 12:000 in for 1 h at RT with agitation. The blot was washed as above and developed following manufacture recommendations. Exposure time was 10-30 seconds.

Courtesy of Dr. Ute Voithknecht and Edoardo Cutolo, Munich University, Germany