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Product no AS15 2903

TKL1 | transketolase (chloroplastic)

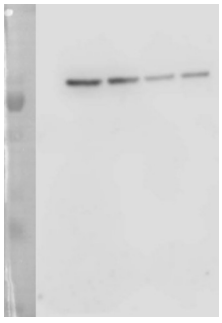
Product information

Immunogen	Purified, recombinant mature TKL1 of *Arabidopsis thaliana,* UniProt: Q8RWV0, TAIR: At3g60750
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	For reconstitution add 45 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.

Application information

Recommended dilution	1 : 2000 (WB)
Expected | apparent MW	72 kDa
Confirmed reactivity	*Arabidopsis thaliana, Pisum sativum*
Predicted reactivity	*Cucumis sativus, Synechococcus elongatus sp PCC 7942* Species of your interest not listed? Contact us
Additional information	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.
Selected references	Rocha et al. (2014). Phosphorylation of Arabidopsis transketolase at Ser428 provides a potential paradigm for the metabolic control of chloroplast carbon metabolism. Biochem J. 2014 Mar 1;458(2):313-22. doi: 10.1042/BJ20130631.

application example



Approximately 1 ug (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 1mM DTT. Samples were denatured at 96°C for 3 min and were separated on 10 % SDS-PAGE and blotted for 45min. to PVDF using semi-dry transfer. Blots were blocked with TBST with 5 % milk powder (0.02 % Tween 20) for 1h at room temperature (RT). Blot was incubated in the primary antibody at a dilution of 1: 5 000 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 12:0 000 in for 1h 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 Vothknecht and Edoardo Cutolo, Munich University, Germany