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Product no AS16 3207

Anti-TPL | Transcription factor TOPLESS (rabbit antibody)

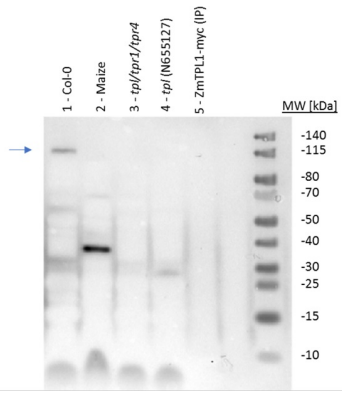
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* TPL sequence. UniProt: Q94AI7, TAIR: AT1G15750 Chosen peptide is not conserved in *Arabidopsis thaliana* Topless-related proteins.
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
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	The peptide used to elicit this antibody is not conseerved in the product of the gene AT4G30480.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	124 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Gossypium arboreum, Gossypium hirsutum, Noccaea caerulescens, Populus tomentosa, Theobroma cacao* Species of your interest not listed? Contact us
Not reactive in	*Zea mays*

Application example



20 µg of total protein from *Arabidopsis thaliana* Col-0 (wt) (1), *Zea mays* leaf total protein extract (2), tpl/tpr1/tpr4 triple mutant in Col-0 background (3), Tpl mutant (N655127) (4), extracted with 1x LDS loading buffer to 50 mg tissue powder and proteins were denatured at 75°C for 10 min (1x LDS buffer: 10% glycerol, 250 mM Tris-HCl pH 8.5, 0.5 mM EDTA, 2% Lithium dodecyl sulfate, 0.005% Bromophenol blue) were separated on % SDS-PAGE and blotted 1h to nitrocellulose using Trans Blot Turbo system (BioRad). Blots were blocked with 5 % nonfat milk in TBS-T (100 mM Tris-HCl, 200 mM NaCl, 0.05% Tween 20) for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 1h at RT with agitation in TBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 5 min 4 times in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted to 1:20 000 in for 1h at RT with agitation. The blot was washed as above and developed with chemiluminescent detection of extreme low femtogram range. Exposure time was 12.6 seconds.

Peptide used to elicit TPL1 antibody is not conserved in TPL1 of *Zea mays*, which therefore serves as a negative control.

Courtesy Dr. Janos Bindics,Gregor Mendel Institute of Molecular Plant Biology, Vienna, Austria