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Product no AS12 2609

AP2 | Floral homeotic protein APETALA 2

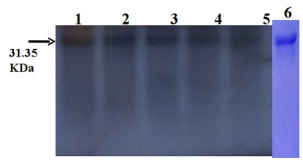
Product information

Immunogen	KLH-conjugated synthetic peptide derived from AP2 sequence of *Arabidopsis thaliana*, UniProt: P47927, TAIR: At4g36920
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.

Application information

Recommended dilution	1 : 1000-1 : 6000 (WB)
Expected | apparent MW	47,8 kDa
Confirmed reactivity	*Arabidopsis thaliana, Brassica napus, Oryza sativa*
Predicted reactivity	*Arabis alpina, Lepidium appelianum* Species of your interest not listed? Contact us
Not reactive in	*Nicotiana tabacum, Vitis vinifera*
Additional information	This antibody was used in western blots on *Lepidium appelianum* and *Lepidium campestre* AP2 Protein expressed in *E. coli* cells. Applied dilution was 1: 6000. Contains 0.02 % sodium azide.
Selected references	Wang et al. (2021). Brassinosteroids inhibit miRNA-mediated translational repression by decreasing AGO1 on the endoplasmic reticulum. J Integr Plant Biol. 2021 May 21. doi: 10.1111/jipb.13139. Epub ahead of print. PMID: 34020507.

Application example



1 µg of total protein from *Oryza sativa* lines grown under drought stress conditions and over expressing protein DREB (AP2 domain, 285 aa, 31.35 kDa) **(lines 1-5)** and purified 100 ng of DREB **(line 6)**, were separated on 12.5 % SDS-PAGE and blotted 4h to Nitrocellulose membrane. Blots were blocked with blocking agent 5% BSA or 1X TBS, 0.1% Tween-20 with 5% w/v non-fat dry milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 6 000 for 1h at RT or overnight at 4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 x 5 min in 1XTBST at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted to 1:8000 in for 1h at RT or max. 2h with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was preferred between 20 to 30 seconds or max. 1 min.

Courtesy of Dr. Sunita Yadav, Indian Institute of Technology Kharagpur, India