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Product no AS24 5041

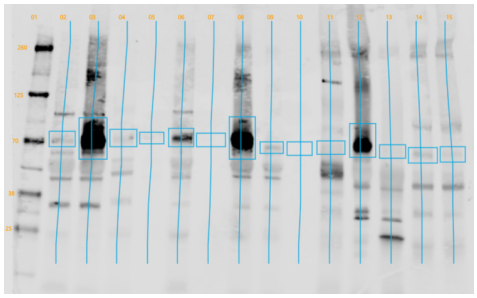
Anti-ZEP | Zeaxanthin Epoxidase

Product information

Immunogen	Part of *Arabidopsis thaliana* ZEP protein, conserved in di and monocots, UniProt: Q9FGC7 , TAIR: AT5G67030
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl of sterile or deionized 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.
Additional information	Antigen sequence is conserved in a range of plant species, however for successful detection 6-8 M urea must be included, as described here.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	70-75 kDa
Confirmed reactivity	*Arabidopsis thaliana, Manihot esculenta, Sorghum bicolor, Zea mays, Vigna unguiculata*
Predicted reactivity	*Brassica napus, Glycine max, Hordeum vulgare, Oryza sativa, Spinacia oleracea, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Antibody is detecting *A.thaliana* ZEP expressed in: cassava, cowpea, and soybean.
Selected references	To be added when available. Antibody released in August 2025.



Samples:
2 - 30 µg of *Vigna unguiculata* total cell extract
4 - 30 µg of *Sorghum bicolor* total cell extract
6 - 30 µg of *Arabidopsis thaliana* total cell extract
9 - 30 µg of *Manihot esculenta* total cell extract
11 - 30 µg of *Nicotiana tabacum* total cell extract
13 - 30 µg *Glycine max* total cell extract
14 - 30 µg *Zea mays total cell extract*

Up to 30 µg/well of total protein extracted from previously frozen (-80°C) and ground plant leaves extracted with 2 % SDS (w/v), 10% glycerol (v/v), 62.5 mM Tris, 20 mM BME and denatured at 95°C/5 min. Samples were separated on 4-20 % SDS-PAGE and blotted for 3 min. by TGX Turbo Transfer to nitrocellulose (pore size of 0.2 µm). Blot was blocked with 5 % milk in PBS for 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 in 5% milk in PBST (0.1% Tween20) overnight /4oC with agitation. The antibody solution was decanted, and the blot was rinsed briefly, then washed 4 times for 5 min in PBS-T at RT with agitation. Blot was incubated in 1:20,000 Alexa Fluor 800 secondary antibody for 1 h/RT with agitation. The blot was washed as above and imaged on Licor Odyssey 800 nm channel with mid-resolution for approximately 25 minutes.

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Important note: Antigen sequence is conserved in a range of plant species, however for successful detection 6-8 M urea must be included, as described here.

Western blot conditions always require further optimization, depending upon used plant material, extraction and detection methods.