

Agrisera

This product is for research use only (not for diagnostic or therapeutic use)

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

product **AS16 3981**

2b protein [Cucumber mosaic virus]

product information

Background | 2b protein [Cucumber mosaic virus] is one of the first identified suppressors that could inhibit post-transcriptional gene silencing (PTGS), but with little or no effect on miRNA functions. CMV 2b protein also interferes with miRNA pathways, eliciting developmental anomalies.

Immunogen | Recombinant 2b protein [Cucumber mosaic virus] Protein accession number: [NP_619631](#).

Host | Rabbit

Clonality | Polyclonal

Purity | Serum

Format | Lyophilized

Quantity | 50 µl

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 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.

Tested applications | Western Blot (WB)

Related products | [AS15 3062](#) | Anti-TM2 | Tobacco mosaic virus resistance-2, rabbit antibodies
[AS09 527](#) | Anti-AGO1 | Argonaute 1, rabbit antibodies

[collection of antibodies to plant viruses](#)

[collection of antibodies to microRNA](#)

[Plant and algal protein extraction buffer](#)

Additional information | This product can be sold containing proclin if requested

Application information

Recommended dilution | 1 : 5000 (WB)

Expected | apparent MW | 12.7 | 18 kDa

Confirmed reactivity | 2b protein [Cucumber mosaic virus]

Not reactive in | No confirmed exceptions from predicted reactivity are currently known.

Selected references | [Nemes et al. \(2019\)](#). Symptom recovery is affected by Cucumber mosaic virus coat protein phosphorylation. *Virology* Volume 536, October 2019, Pages 68-77.
[Zhang et al \(2006\)](#). Cucumber mosaic virus-encoded 2b suppressor inhibits Arabidopsis Argonaute1 cleavage activity to counter plant defense. *Genes & development* 20: 3255-3268.

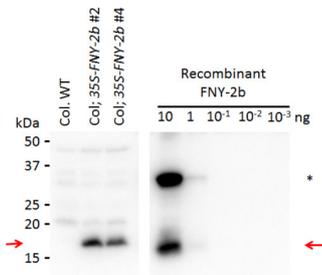
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Application example



80 µg of *Arabidopsis thaliana* soluble total cell extract from FNY 2b transgenic plants or the indicated amounts of the untagged recombinant proteins (extracted in 2 x SDS buffer (0.125M Tris pH 6.8, 4% (w/v) SDS, 20%(v/v) glycerol, 0.2M DTT, 0.02% bromophenol blue)) was separated on 15% SDS-PAGE and blotted 1h to PVDF membrane. Filters were blocked 1h with 5% low-fat milk powder in PBS-T (1 X PBS buffer; 0.5% TWEEN20) and probed with the serum of anti-FNY 2b antibody (1:5 000, 1h) and secondary anti-rabbit (1:5000, 1 h) antibody (HRP conjugated) in PBS-T containing 5% low fat milk powder. Antibody incubations were followed by washings in PBS-T. All steps were performed at RT with agitation. Blots were developed for 5 min with ECL-Prime detection reagent according the manufacturer's instructions. Exposure time was 20 seconds.

Courtesy of Dr. Xiuren Zhang, Texas A&M University, USA