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Product no AS16 3981

Anti-2b protein [Cucumber mosaic virus]

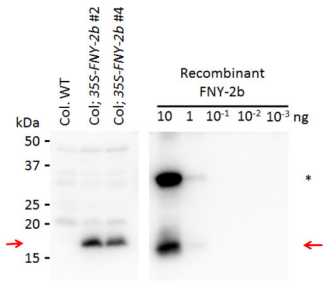
Product information

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 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	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	Pinczés et al. (2024). Viral coat proteins decrease the gene silencing activity of cognate and heterologous viral suppressors. Sci Rep. 2024 Dec 28;14(1):31008. doi: 10.1038/s41598-024-81998-4. Wu et al. (2020). WUSCHEL triggers innate antiviral immunity in plant stem cells. Science. 2020 Oct 9;370(6513):227-231. doi: 10.1126/science.abb7360. PMID: 33033220. 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.

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