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

Product no AS15 2987

GFP | Green Fluorescence Protein (affinity purified)

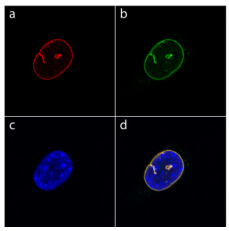
Product information

Immunogen	Highly purified native GFP protein derived from *Aequorea victoria,* UniProt: P42212
Host	Rabbit
Clonality	Polyclonal
Purity	Affinity purified serum
Format	Liquid
Quantity	100 µg at 1 mg/ml
Storage	Store at 4°C, or in small aliquots at -20°C. Avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tubes.
Additional information	10 mM TRIS buffer pH 8.0 containing 0.02% sodium azide

Application information

Recommended dilution	1 : 5000-1 : 25 000 (ELISA), 1 : 500 (IF), 1 : 2000-1 : 10 000 (WB)
Confirmed reactivity	Native GFP, Recombinant GFP (E.coli), all variants of GFP, including EGFP.
Additional information	Minimal cross-reactivity with *E.coli* proteins. For high resolution images, please visit the specific product page at www.agrisera.com
Selected references	Wieczorek et al. (2020) Development of a New Tomato Torrado Virus-Based Vector Tagged with GFP for Monitoring Virus Movement in Plants. Viruses. 2020 Oct 20;12(10):1195. doi: 10.3390/v12101195. PMID: 33092281; PMCID: PMC7588970. Kulich et al. (2018). Deubiquitinase OTU5 affects Root Responses to Phosphate Starvation. Plant Physiol. 2018 Jan 4. pii: pp.01693.2017. doi: 10.1104/pp.17.01693.

Immunolocalization



Detection of YFP-tagged Lamin A in the nucleus of mouse fibroblasts using GFP | Green Fluorescence Protein (affinity purified) antibodies. Fixation and permeabilization was performed with methanol at -20°C for 10 min. **a)** Indirect immunofluorescence labeling of YFP-lamin A with anti-GFP primary antibody (dilution 1: 500) as primary antibody and detected by TRITC-conjugated goat-anti-rabbit as secondary antibody.
b) Green fluorescence image of YFP-tagged Lamin A, which is incorporated into the nuclear lamina and tubular structures that penetrate into the nucleus.
c) DAPI staining of nuclear DNA.
d) Merged images

western blot

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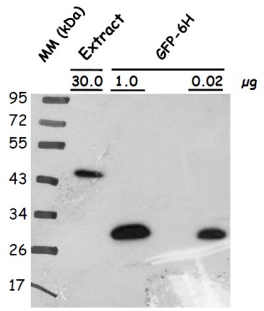

Protein extracts were obtained from *Arabidopsis thaliana* seeds (producing atLEA4-5 fused to GFP; other lanes contain GFP-6H loaded in indicated amounts). Following extraction buffer was used: 0.7 M sucrose, 0.5 M Tris-base, 30 mM HCl, 50 mM EDTA, 0.1 M KCl, 2% -mercaptoethanol, 12 mg/ml poly-vinyl-poly-pyrrolidone (PVPP). This buffer was complemented with 2mL of equilbrated phenol before extraction. Samples were centrifuged and the protein phase was recovered; the extracted proteins were precipitated with 0.1 m ammonium acetate dissolved in methanol, centrifuged and the pellet washed with cold (-20) 80% acetone. The protein pellet was dissolved in SDS-solubilization buffer (1% CHES, 2% SDS, 2% ß-mercaptoethanol, 10% glicerol). Thirty 𝜇g of seed protein extract was denatured with Laemmli buffer at 95 °C for 5 min and proteins were separated on 15% SDS-PAGE and blotted 1.5 h to nitrocellulose membrane in a liquid transfer system. Blots were blocked with 2% skim milk ON at 4°C with agitation. After rinsing with TBS, blots were incubated in the primary antibody at a dilution of 1:10 000 (anti-GFP) for 3h at 4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly, then washed once for 15 min. and 3 times for 5 min in TBS-T at 4°C with agitation. Then, blots were incubated in secondary antibody (anti-rabbit IgG horse-radish peroxidase conjugate) diluted to 1:25 000 in for 1h at RT with agitation. The blot was washed as above and developed for 2 min with SuperSignal West Pico Chemiluminescent Substrate, Thermo Fisher Scientific. Exposure time was for 30 seconds.

Courtesy of Dr. Alejandra Covarrubias, UNAM, Mexico