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Product no AS18 4227

Anti-GFP | Green fluorescent protein (VENUS)

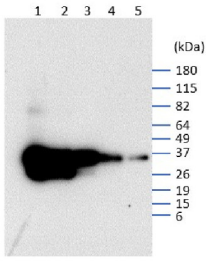
Product information

Immunogen	Full length, recombinat VENUS protein, expressed in *E.coli,* UniProt: P42212
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	Lyophilized antibody can be stored at -20°C for up to 3 years. 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 (WB)
Expected | apparent MW	26 kDa
Confirmed reactivity	cell lysate overexoressing Venus protein fusion
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Zhang et al. (2024). An epigenetically mediated double negative cascade from EFD to HB21 regulates anther development. Nat Commun. 2024 Sep 6;15(1):7796. doi: 10.1038/s41467-024-52114-x. Baiden et al. (2022). Heterologous expression of antimicrobial peptides S-thanatin and bovine lactoferricin in the marine diatom Phaeodactylum tricornutum enhances native antimicrobial activity against Gram-negative bacteria, Algal Research, Volume 69, 2023, 102927, ISSN 2211-9264, https://doi.org/10.1016/j.algal.2022.102927.

Application example



200 ng mVenus YFP protein **(1)**; 100 ng mVenus YFP protein **(2)** ; 49 ng mVenus YFP protein **(3)** ; 24 ng mVenus YFP protein **(4)** ; 12 ng mVenus YFP protein **(5)**
MW markers: BenchMark™ Pre-stained Protein Ladder (10748010)
>0.200 – 0.012 µg of total protein from a pure stock of mVenus YFP protein in 1x SIGMAFAST EDTA-free Protease Inhibitor (S8830-2TAB) and denatured with 1x reducing Laemmli SDS buffer at 90°C for 10 min, and insoluble material pelleted at 20,000 xg for 15 min. Samples were run to separation on a 4-12% SDS-PAGE gel and blotted 7 mins to PVDF using ThermoFisher iBlot high voltage Protocol 3. Blot was blocked with 7.5 % milk in TBS-T for 20mins/RT with agitation. Blot was incubated in the primary antibody (i.e. Rabbit anti-Venus IgG) at a dilution of 1:10 000 with 7.5 % milk in TBS-T ON/4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly three times, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was blocked with 7.5 % milk in TBS-T for 20mins/RT. Blot was then incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in TBS-T for 2.5h/RT with agitation. The blot was washed as above, then as above with TBS, and developed for 5 min with chemiluminescent detection reagent, according to manufature's instruction.
Exposure time was approximately 3 seconds.

Courtesy of Dr. Dr Nanakow Baiden at Rothamsted Research, UK