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Product no AS16 3691

Anti-LUC | Luciferase (firefly) (serum)

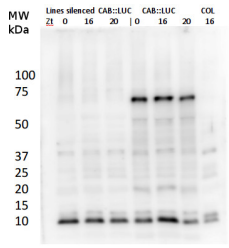
Product information

Immunogen	KLH-conjugated synthetic peptide derived from N-terminal part of LUC protein sequence of *Photinus pyralis*, UniProt: Q27758
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.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	Depends on the MW of the protein that is LUC-tagged.
Confirmed reactivity	LUC
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Ormancey et al. (2023) Complementary peptides represent a credible alternative to agrochemicals by activating translation of targeted proteins. Nat Commun. 2023;14(1):254. Published 2023 Jan 17. doi:10.1038/s41467-023-35951-0

Application example



total and cytosolic extract from *Arabidopsis thaliana* seedlings with detectable Luciferase expression at different zt time, three samples of a line with silenced luciferase expression (no detection of Luciferin caused light emission) and one wilde-type without CAB2::LUC expression. 100 µg of tissue was homogenized with extraction buffer on ice, spun at 4°C at 20 000g/15 min. and denatured at 100°C or 10 min. Samples were separated on 12% SDS-PAGE and blotted over night to PVDF using semi-dry. Blots were blocked with milk-TBS for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 2h at RT with agitation in TBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted to 1:5000 in for 1h at RT with agitation. The blot was washed as above and developed for min with ECL kit following manufacture recommendations.

Courtesy of Dr. Mark Ruhl, Umeå Plant Science Centre, Sweden