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Product no AS11 1775

Anti-C-YFP | C-terminal of YFP

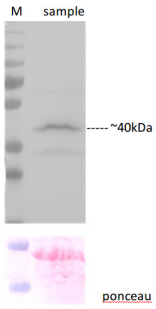
Product information

Immunogen	KLH-conjugated synthetic peptide derived from C-terminal of YFP protein. This peptide is conserved in pGWB541 Vector.
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	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 : 10 000 (WB)
Confirmed reactivity	C-YFP tagged proteins from *Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	The peptide used to elicit this antibody is perfectly conserved in GFP protein sequence: UniProt: P42212
Selected references	Łabuz et al. (2024). Phototropin2 3'UTR overlaps with the AT5G58150 gene encoding an inactive RLK kinase. BMC Plant Biol. 2024 Jan 18;24(1):55. Li et al. (2021) Two ubiquitin-associated ER proteins interact with COPT copper transporters and modulate their accumulation, Plant Physiology, 2021;, kiab381, https://doi.org/10.1093/plphys/kiab381 Lung et al. (2021) Oxylipin signaling in salt-stressed soybean is modulated by ligand-dependent interaction of Class II acyl-CoA-binding proteins with lipoxygenase. Plant Cell. 2021 Dec 17:koab306. doi: 10.1093/plcell/koab306. Epub ahead of print. PMID: 34919703.

Application example



Arabidopsis thsliana leaf lysate which is co-expressing test protein 1 with nYFP tags (~60 kDa) and test protein 2 with cYFP-tag (~40 kDa). In each case only one band is visible demonstrating that the antibodies do not cross-react. Sample preparation and immunoblot analysis were carried out as described in Karnik et al., Plant Cell 2015, March 2015 vol. 27 no. 3 675-694. For immunoblot analysis of plant tissues,leaves were excised and flash frozen in liquid N2. Frozen tissue was ground in equal volumes (w/v) of homogenization buffer containing 500 mM sucrose, 10% glycerol, 20 mM EDTA,20m MEGTA, ProteaseInhibitor(Roche),10mMascorbicacid,5mM DTT, and 50 mM Tris-HCl, pH 7.4, and centrifuged at 13,000g and 4°C for 30 min to pellet debris. Supernatant was diluted 1:1 in 23 Laemmli buffer containing 2.5% 2-mercaptoethanol, heated to 95°C for 10 min, and separated by SDS-PAGE on a 12% Acrylamide gel. Ponceau S-stained Rubisco bands were used as loading standards for plant samples. Membrane type: Cellulose Nitrate (GE Healthcare) Blocking reagent: GE Healthcare Wash buffer: Tris Buffered Saline, 0.5% Tween Exposure time: 10 – 20 seconds.

Courtesy of Dr. Rucha Karnik, University of Glasgow, UK