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Product no AS15 2991

Cat | Catalase (algal)

Product information

Immunogen	KLH-conjugated peptide chosen from *Chlamydomonas reinhardtii* catalase sequence, UniProt: A8J537
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 : 2500 (WB)
Expected | apparent MW	57 kDa
Confirmed reactivity	*Chlamydomonas reinhardtii*, *Scenedesmus* sp.
Predicted reactivity	*Coccomyxa subellipsoidea C-169, Nannochloropsis gaditana, Ulva prolifera, Zosteria marina* Species of your interest not listed? Contact us
Selected references	Ameri et al. (2020). Aluminium triggers oxidative stress and antioxidant response in the microalgae Scenedesmus sp. J Plant Physiol. 2020 Jan 15;246-247:153114. doi: 10.1016/j.jplph.2020.153114. Kong et al. (2018) Interorganelle Communication: Peroxisomal MALATE DEHYDROGENASE2 Connects Lipid Catabolism to Photosynthesis through Redox Coupling in Chlamydomonas. Plant Cell. 2018 Aug;30(8):1824-1847. doi: 10.1105/tpc.18.00361

application information

5 µg of total protein from *Chlamydomonas reinhardtii* extracted with 2 % SDS / 50 mM TRIS pH 6.8 + protease inhibitor cocktail were separated on 12 % SDS-PAGE and blotted for 1 h to PVDF using semi-dry transfer. Blots were blocked with 5 % low-fat milk powder TBS + 0.1 % Tween for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 2 500 for 1 h at RT with agitation. The antibody solution was decanted and the blot was rinsed, then washed 3 times each for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:25 000 in 2 % low-fat milk powder TBS + 0.1 % Tween for 1h at RT with agitation. The blot was washed as above and developed with chemiluminescent detection reagent, according to the manufacturer's instructions. Exposure time was typically 30 seconds.

Courtesy of Dr. Thomas Roach, University of Innsbruck, Austria