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Product no AS15 2883

GST1 | Glutathione-S-transferase (algal)

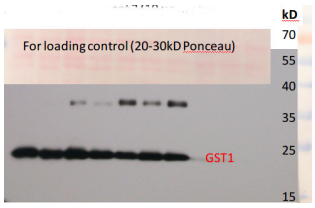
Product information

Immunogen	KLH-conjugated synthetic peptide derived from Glutathione-S-transferase protein sequence from *Chlamydomonas reinhardtii,* UniProt: A8JBA7
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 : 5000 (WB)
Expected | apparent MW	23,9 kDa
Confirmed reactivity	*Chlamydomonas reinhardtii*
Predicted reactivity	*Volvox carteri* Species of your interest not listed? Contact us
Selected references	Roach et al. (2018). Distress and eustress of reactive electrophiles and relevance to light stress acclimation via stimulation of thiol/disulphide-based redox defences. Free Radic Biol Med. 2018 Mar 18. pii: S0891-5849(18)30134-5. doi: 10.1016/j.freeradbiomed.2018.03.030. Kumar and Chattopadhyay (2018). Glutathione modulates the expression of heat shock proteins via the transcription factors BZIP10 and MYB21 in Arabidopsis. J Exp Bot. 2018 Jun 27;69(15):3729-3743. doi: 10.1093/jxb/ery166.

application example



10 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: 5 000 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 for 30 s with chemiluminescent detection reagent, according to the manufacturer's instructions. Exposure time was typically 30 seconds.

Courtesy Dr. Thomas Roach, University of Innsbruck, Austria