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Product no AS15 2883

Anti-GST1 | Glutathione-S-transferase (algal)

Product information

KLH-conjugated synthetic peptide derived from Glutathione-S-transferase protein sequence from Chlamydomonas Immunogen 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 23.9 kDa

MW

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