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Product no AS11 1737

Anti-Beta-CA1, beta-CA2 | carbonic anhydrase | mitochondrial | Chlamydomonas

Product information

Immunogen	recombinant *Chlamydomonas reinhardtii* mitochondrial CA, as described in Villand et al. 1997. Accession number Q39590 and Q39589
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	200 µl
Reconstitution	For reconstitution add 200 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.
Additional information	Antibody is recognizing both isoforms, beta- CA1 and beta-CA2 and can be used as mitochondrial marker for low carbon dioxide grown cells of Chlamydomonas reinhardtii

Application information

Recommended dilution	1 : 200 (IF), 1 : 1000 (WB)
Expected | apparent MW	23.7 | 21-22 kDa
Confirmed reactivity	*Chlamydomonas reinhardtii*
Predicted reactivity	*Chlamydomonas reinhardtii*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Burlacot et al. (2022) Alternative photosynthesis pathways drive the algal CO2-concentrating mechanism. Nature 605, 366–371 (2022). https://doi.org/10.1038/s41586-022-04662-9 Kuken et al. (2018). Effects of microcompartmentation on flux distribution and metabolic pools in Chlamydomonas reinhardtii chloroplasts. Elife. 2018 Oct 11;7. pii: e37960. doi: 10.7554/eLife.37960. Muranaka et al. (2015). TEF30 interacts with photosystem II monomers and is involved in the repair of photodamaged photosystem II in Chlamydomonas reinhardtii. Plant Physiol. 2015 Dec 7. pii: pp.01458.2015. Tirumani et al. (2014). Regulation of CCM genes in Chlamydomonas reinhardtii during conditions of light-dark cycles in synchronous cultures. Plant Mol Biol. 2014 Mar 4. Renberg et al. (2010). A Metabolomic Approach to Study Major Metabolite Changes during Acclimation to Limiting CO2 in Chlamydomonas reinhardtii. Plant physiol. 154: 187-196.