

Product no **AS11 1737****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 CO<sub>2</sub>-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 CO<sub>2</sub> in *Chlamydomonas reinhardtii*. *Plant physiol*. 154: 187-196.