

Product no **AS19 4321****Anti-BetaCA1 | Beta carbonic anhydrase 1 (chloroplastic)****Product information**

Immunogen	KLH-conjugated synthetic peptide, derived in the part C-terminus of BetaCA1 of <i>Arabidopsis thaliana</i> , UniProt: P27140 , TAIR: At3g01500
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 : 20 000 (WB)
Expected apparent MW	37.5 25.3 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i>
Predicted reactivity	<i>Solanum lycopersicum</i> Q5NE20 Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Extraction method – Grind 50 mg of leaf tissue in a sterile microcentrifuge tube using a sterile plastic pestle. Add 132µL of Protein Extraction Buffer (1x TE, 1.2 %SDS, 2.7% sucrose, 7.5 µg mL ⁻¹ bromophenol blue) to the ground leaf tissue. Vortex the sample and keep on ice for 15 mins. Centrifuge at 14,000 rpm for five minutes using a benchtop centrifuge. Collect the supernatant and in a new sterile 0.5 ml microcentrifuge tube and discard the pellet. This antibody does not recognize betaCA2.
Selected references	DiMario et al. (2016). The Cytoplasmic Carbonic Anhydrases CA2 and CA4 Are Required for Optimal Plant Growth at Low CO ₂ . Plant Physiol. 2016 May;171(1):280-93. doi: 10.1104/pp.15.01990.