

Anti-Carbonic anhydrase 10/CA10 Antibody Picoband®

Catalog Number: A07237-1

About CA10

Carbonic anhydrase-related protein 10 is an enzyme that in humans is encoded by the CA10 gene. This gene encodes a protein that belongs to the carbonic anhydrase family of zinc metalloenzymes, which catalyze the reversible hydration of carbon dioxide in various biological processes. The protein encoded by this gene is an acatalytic member of the alpha-carbonic anhydrase subgroup, and it is thought to play a role in the central nervous system, especially in brain development. Multiple transcript variants encoding the same protein have been found for this gene.

Overview

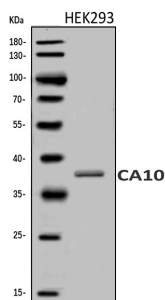
Product Name	Anti-Carbonic anhydrase 10/CA10 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Carbonic anhydrase 10/CA10 Antibody Picoband® catalog # A07237-1. Tested in ELISA, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9NS85

Technical Details

Immunogen	E.coli-derived human Carbonic anhydrase 10/CA10 recombinant protein (Position: M1-K328).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Human ELISA, 0.1-0.5ug/ml, -

Anti-Carbonic anhydrase 10/CA10 Antibody Picoband® (A07237-1) Images



Western blot analysis of Carbonic anhydrase 10/CA10 using anti-Carbonic anhydrase 10/CA10 antibody (A07237-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Carbonic anhydrase 10/CA10 antigen affinity purified polyclonal antibody (Catalog # A07237-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Carbonic anhydrase 10/CA10 at approximately 38 kDa. The expected band size for Carbonic anhydrase 10/CA10 is at 38 kDa.

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