

Anti-Angiotensin Converting Enzyme 1/ACE Antibody Picoband®

Catalog Number: PA2196-2

About ACE

Angiotensin I converting enzyme (ACE), also called DCP or CD143 is a zinc-containing dipeptidyl carboxypeptidase widely distributed in mammalian tissues and is thought to play a critical role in blood pressure regulation. This gene is mapped to 17q23.3. This gene encodes an enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system. Many studies have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme or cardiovascular pathophysiology.

Overview

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| Product Name | Anti-Angiotensin Converting Enzyme 1/ACE Antibody Picoband® |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-Angiotensin Converting Enzyme 1/ACE Antibody catalog # PA2196-2. Tested in WB applications. This antibody reacts with Human, Mouse. 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 | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| 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 | P12821 |

Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence at the N-terminus of human Angiotensin Converting Enzyme 1, different from the related mouse sequence by two amino acids, and from the related rat sequence by four amino acids. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western |

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| | 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, 0.1-0.5ug/ml, Human, Mouse |

Anti-Angiotensin Converting Enzyme 1/ACE Antibody Picoband® (PA2196-2) Images



Anti-ACE antibody, PA2196-2, Western blotting
All lanes: Anti ACE (PA2196-2) at 0.5ug/ml
Lane 1: A549 Whole Cell Lysate at 40ug
Lane 2: HELA Whole Cell Lysate at 40ug
Lane 3: 22RV1 Whole Cell Lysate at 40ug
Predicted bind size: 150KD
Observed bind size: 150KD

2 Publications Citing This Product

1. PubMed ID: 29969996, Telmisartan protects chronic intermittent hypoxic mice via modulating cardiac renin-angiotensin system activity
2. PubMed ID: 28765966, Aliskiren has chondroprotective efficacy in a rat model of osteoarthritis through suppression of the local renin-angiotensin system

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