

Anti-Angiotensin Converting Enzyme 1/ACE Antibody Picoband® Fluoro594 Conjugated

Catalog Number: PB9124-Fluoro594

About ACE

Angiotensin-converting enzyme (ACE), an exopeptidase, is a circulating enzyme that participates in the body's renin-angiotensin system (RAS), which mediates extracellular volume (i.e. that of the blood plasma, lymph and interstitial fluid), and arterial vasoconstriction. It is secreted by pulmonary and renal endothelial cells and catalyzes the conversion of decapeptide angiotensin I to octapeptide angiotensin II. Using a DNA marker at the growth hormone gene locus, which they characterized as 'extremely polymorphic' and which showed no recombination with ACE, ACE was mapped to 17q22-q24, consistent with the in situ hybridization mapping to 17q23. ACE, or kininase II, is a dipeptidyl carboxypeptidase that plays an important role in blood pressure regulation and electrolyte balance by hydrolyzing angiotensin I into angiotensin II, a potent vasopressor, and aldosterone-stimulating peptide. The enzyme is also able to inactivate bradykinin, a potent vasodilator.

Overview

| | |
|----------------------|---|
| Product Name | Anti-Angiotensin Converting Enzyme 1/ACE Antibody Picoband® Fluoro594 Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Recommended applications are based on the parent unconjugated antibody (IF, IHC, IHC-F, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | P12821 |

Technical Details

| | |
|------------------|---|
| Immunogen | E.coli-derived human ACE recombinant protein (Position: K651-Y864). Human ACE shares 73% and 76% amino acid (aa) sequences identity with mouse and rat ACE, respectively. |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |

| | |
|---------------------|---|
| Conjugate | Fluoro594 Excitation Wavelength: 593 nm Emission Wavelength: 618 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users. |

4 Publications Citing This Product

1. PubMed ID: 10.3892/mmr.2017.6201, Low concentrations of bilirubin inhibit activation of hepatic stellate cells in vitro
2. PubMed ID: 10.1007/s00198-014-2992-y, Local renin-angiotensin system is associated with bone mineral density of glucocorticoid-induced osteoporosis patients
3. PubMed ID: 29969996, Telmisartan protects chronic intermittent hypoxic mice via modulating cardiac renin-angiotensin system activity

Visit bosterbio.com/anti-ace-picoband-trade-antibody-pb9124-boster.html to see all 4 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Angiotensin Converting Enzyme 1/ACE Antibody - Fluoro594

For Research Use Only. Not for use in diagnostic procedures.