

Datasheet for ABIN6939231

anti-Angiotensin I Converting Enzyme 1 antibody

3 Images

[Go to Product page](#)

Overview

| | |
|--------------|---|
| Quantity: | 100 µg |
| Target: | Angiotensin I Converting Enzyme 1 (ACE) |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Application: | ELISA, Immunohistochemistry (IHC), Coating (Coat), Staining Methods (StM) |

Product Details

| | |
|---------------|---|
| Immunogen: | Full-length recombinant human ACE/CD143 protein |
| Clone: | 9B9 |
| Isotype: | IgG1 kappa |
| Purification: | Purified by Protein A/G |

Target Details

| | |
|-------------------|---|
| Target: | Angiotensin I Converting Enzyme 1 (ACE) |
| Alternative Name: | ACE (ACE Products) |
| Background: | 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 |

Target Details

enzyme or cardiovascular pathophysiology. Two most abundant alternatively spliced variants of this gene encode two isozymes - the somatic form and the testicular form that are equally active. Multiple additional alternatively spliced variants have been identified but their full length nature has not been determined.

Molecular Weight: 195kDa

Gene ID: 1636

UniProt: [P12821](#)

Pathways: [ACE Inhibitor Pathway](#), [Peptide Hormone Metabolism](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [Feeding Behaviour](#), [Smooth Muscle Cell Migration](#)

Application Details

Application Notes: Positive Control: Ubiquitously expressed, with highest levels in lung, kidney, heart, gastrointestinal system and prostate.
Known Application: ELISA (For coating, order antibody without BSA), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT) ,(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

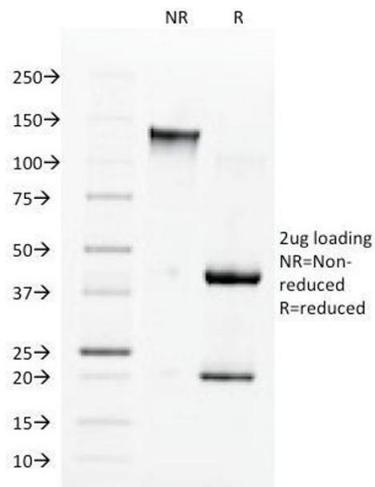
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

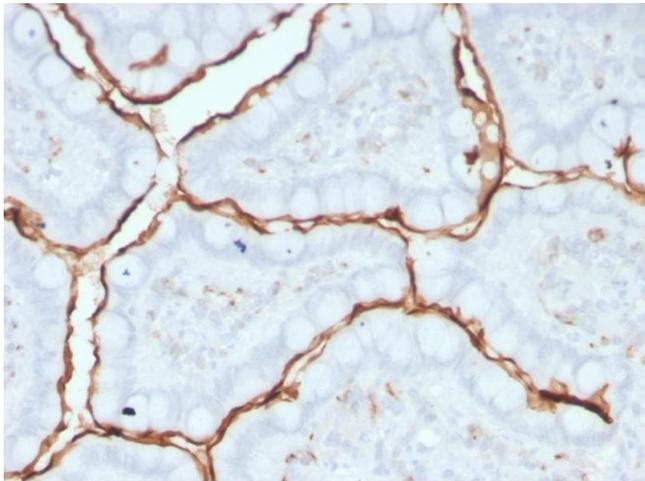
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



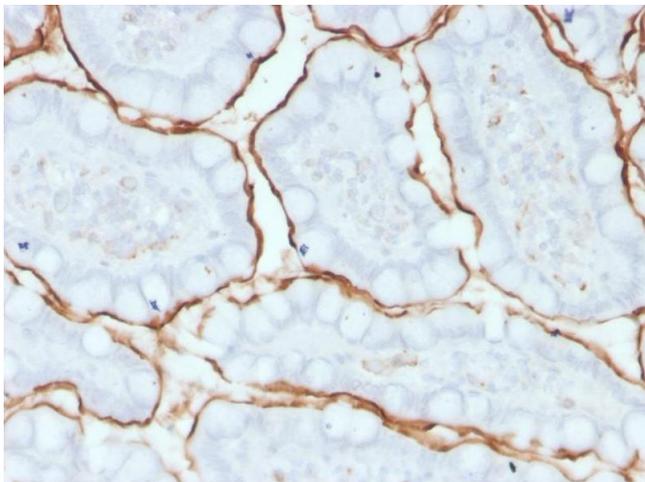
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified ACE / CD143 Mouse Monoclonal Antibody (9B9). Confirmation of Integrity and Purity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human small intestine stained with ACE / CD143 Mouse Monoclonal Antibody (9B9).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human small intestine stained with ACE / CD143 Mouse Monoclonal Antibody (9B9).