

Datasheet for ABIN6939231

**anti-Angiotensin I Converting Enzyme 1 antibody**

3 Images

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## 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 ( <a href="#">ACE Products</a> )
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

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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

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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

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Concentration: 200 µg/mL

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

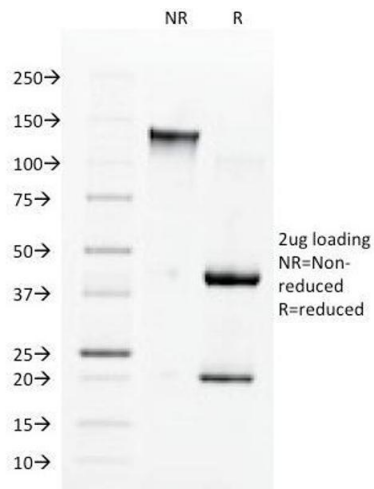
Preservative: Sodium azide

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

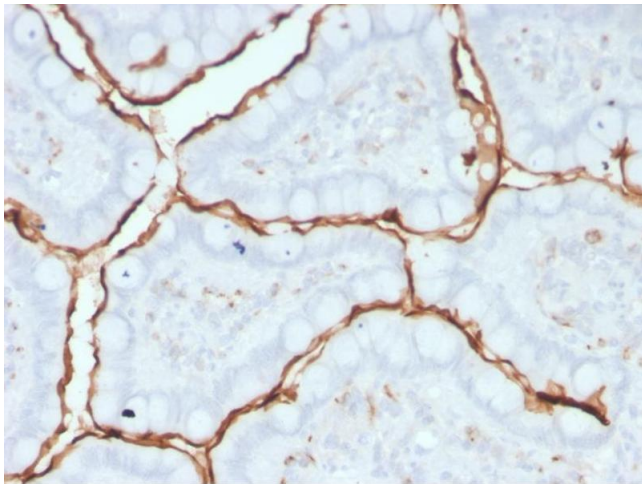
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



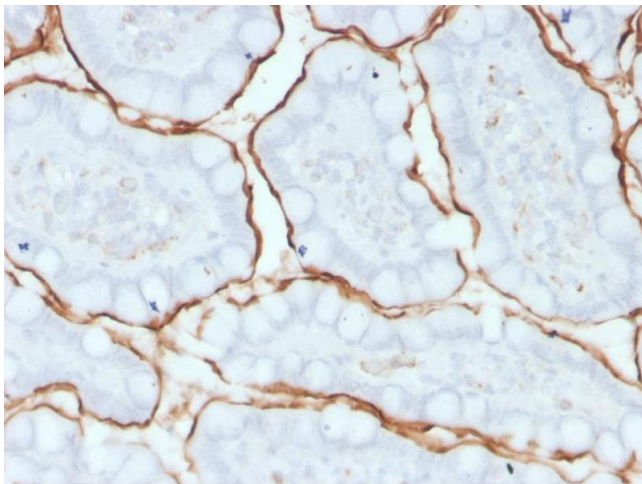
### SDS-PAGE

**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).