

Datasheet for ABIN5518828  
**anti-ECE1 antibody (AA 18-233)**[Go to Product page](#)**1** Image**1** Publication

## Overview

Quantity:	100 µg
Target:	ECE1
Binding Specificity:	AA 18-233
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ECE1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Endothelin-converting enzyme 1(ECE1) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	E.coli-derived human ECE1 recombinant protein (Position: M18-T233). Human ECE1 shares 94% and 93.5% amino acid (aa) sequence identity with mouse and rat ECE1, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Endothelin-converting enzyme 1(ECE1) detection. Tested with WB in Human,Mouse,Rat.</p> <p>Gene Name: endothelin converting enzyme 1</p> <p>Protein Name: Endothelin-converting enzyme 1</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	ECE1
Alternative Name:	ECE1 ( <a href="#">ECE1 Products</a> )
Background:	<p>Endothelin converting enzyme 1, also known as ECE1, is an enzyme which in humans is encoded by the ECE1 gene. The protein encoded by this gene is involved in proteolytic processing of endothelin precursors to biologically active peptides. Mutations in this gene are associated with Hirschsprung disease, cardiac defects and autonomic dysfunction.</p> <p>Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.</p> <p>Synonyms: ECE 1   ECE1   ECE-1   ECE   P42892</p>
Gene ID:	1889
UniProt:	<a href="#">P42892</a>
Pathways:	<a href="#">Regulation of Systemic Arterial Blood Pressure by Hormones, cAMP Metabolic Process</a> , <a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat</p> <p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium 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.

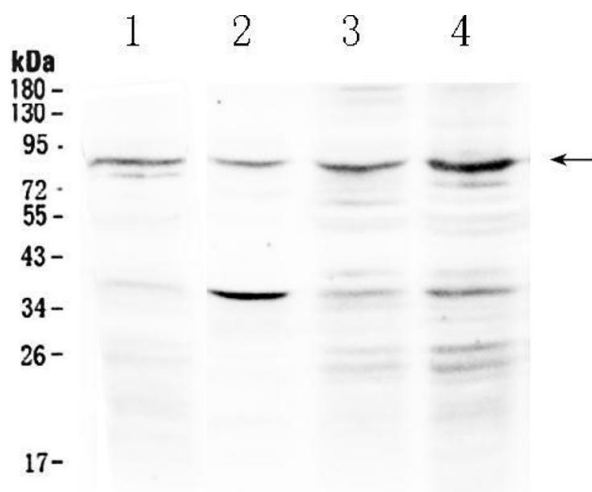
Handling

Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	Leira, Iglesias-Rey, Gómez-Lado, Aguiar, Campos, DAiuto, Castillo, Blanco, Sobrino: " Porphyromonas gingivalis lipopolysaccharide-induced periodontitis and serum amyloid-beta peptides." in: <b>Archives of oral biology</b> , Vol. 99, pp. 120-125, (2019) ( <a href="#">PubMed</a> ).
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Images



**Western Blotting**

**Image 1.** Western blot analysis of ECE1 using anti- ECE1 antibody . 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 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: mouse heart tissue lysates, Lane 3: mouse testis tissue lysates, Lane 4: HELA whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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- ECE1 antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/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 1:10000 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 ECE1 at approximately 87KD. The expected band size for ECE1 is at 87KD.