

Datasheet for ABIN390047  
**anti-ACE2 antibody (AA 140-172)**[Go to Product page](#)

## 3 Images

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 400 µL  |
| Target:              | ACE2  |
| Binding Specificity: | AA 140-172  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This ACE2 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|               |   |
|---------------|---|
| Immunogen:    | This ACE2 (SARS Receptor) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 140-172 amino acids from the Central region of human ACE2 (SARS Receptor). |
| Clone:        | RB4815-4816   |
| Isotype:      | Ig Fraction   |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.   |

## Target Details

|         |      |
|---------|------|
| Target: | ACE2 |
|---------|------|

## Target Details

|                   |  |
|-------------------|--|
| Alternative Name: | ACE2 (SARS Receptor) ( <a href="#">ACE2 Products</a> )   |
| Background:       | ACE2 cDNA encodes a deduced 805-amino acid protein containing a potential 17-amino acid N-terminal signal peptide and a putative 22-amino acid C-terminal membrane anchor. It also possesses a zinc metalloprotease consensus sequence and a conserved glutamine residue that may function as a third zinc ligand. ACE2 is expressed predominantly in vascular endothelial cells of the heart and kidney. ACE converts angiotensin I to angiotensin II, ACE2 converts angiotensin I to angiotensin 1-9, which has 9 amino acids. Angiotensin II is a potent blood vessel constrictor, while angiotensin 1-9 does not impact blood vessels but is cleaved by ACE to a shorter peptide, angiotensin 1-7, which is a blood vessel dilator. Spike (S) proteins of coronaviruses, including the SARS coronavirus, bind with cellular receptors to mediate infection of target cells. ACE2 binds the S1 domain of the SARS coronavirus S protein. SARS coronavirus replicates efficiently on ACE2-transfected but not mock-transfected 293T cells. Anti-ACE2 but not anti-ACE1 antibody blocks viral replication on Vero E6 cells. It has been proposed that ACE2 is a functional receptor for SARS coronavirus. |
| Molecular Weight: | 92463  |
| Gene ID:          | 59272  |
| NCBI Accession:   | <a href="#">NP_068576</a>  |
| UniProt:          | <a href="#">Q9BYF1</a>   |
| Pathways:         | <a href="#">ACE Inhibitor Pathway</a> , <a href="#">Peptide Hormone Metabolism</a> , <a href="#">Regulation of Systemic Arterial Blood Pressure by Hormones</a> , <a href="#">Feeding Behaviour</a>  |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50 |
| Restrictions:      | For Research Use only                    |

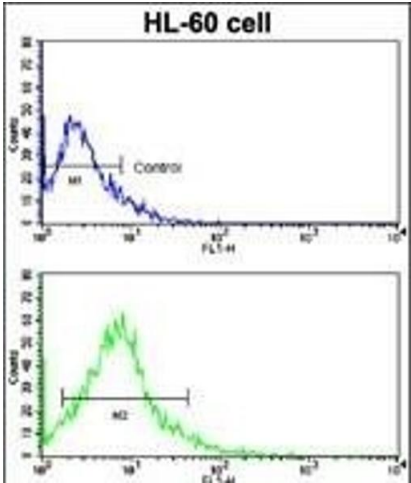
## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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

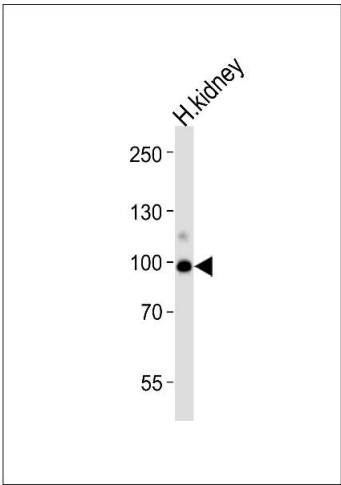
|                  |  |
|------------------|--|
| Storage:         | 4 °C,-20 °C  |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date:     | 6 months   |

Images



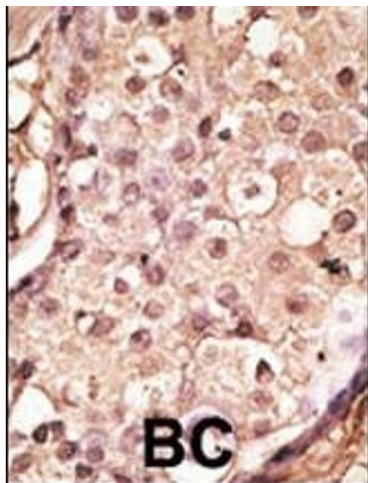
Flow Cytometry

**Image 1.** Flow cytometric analysis of HL-60 cells using ACE2 (SARS Receptor) Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

**Image 2.** Western blot analysis of lysate from human kidney tissue lysate, using ACE2(SARS-R) Antibody (ABIN390047 and ABIN2840583). (ABIN390047 and ABIN2840583) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg per lane.



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.