

Datasheet for ABIN2774060

## anti-ACE2 antibody (Middle Region)



[Go to Product page](#)

1 Image

1 Publication

### Overview

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| Quantity:            | 100 µL                                                      |
| Target:              | ACE2                                                        |
| Binding Specificity: | Middle Region                                               |
| Reactivity:          | Human, Mouse, Rat, Pig, Dog, Cow, Guinea Pig, Horse, Rabbit |
| Host:                | Rabbit                                                      |
| Clonality:           | Polyclonal                                                  |
| Conjugate:           | This ACE2 antibody is un-conjugated                         |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC)           |

### Product Details

|                       |                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human ACE2                                          |
| Sequence:             | FVTAPKNVSD IIPRTEVEKA IRMSRSRIND AFRLNDNSLE FLGIQPTLGP                                                                         |
| Predicted Reactivity: | Cow: 93%, Dog: 93%, Guinea Pig: 79%, Horse: 93%, Human: 100%, Mouse: 93%, Pig: 86%, Rabbit: 86%, Rat: 93%                      |
| Characteristics:      | This is a rabbit polyclonal antibody against ACE2. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification:         | Affinity Purified                                                                                                              |

### Target Details

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

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | ACE2 ( <a href="#">ACE2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Background:       | <p>ACE2 belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS and HCoV-NL63. The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This protein catalyzes the cleavage of angiotensin I into angiotensin 1-9. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility.</p> <p>Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: ACEH, DKFZP434A014</p> <p>Protein Interaction Partner: ACE2, AGT, CALM1, NTS, GHRL,</p> <p>Protein Size: 805</p> |
| Molecular Weight: | 89 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene ID:          | 59272                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| NCBI Accession:   | <a href="#">NM_021804</a> , <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: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment:           | Antigen size: 805 AA                                                               |
| Restrictions:      | For Research Use only                                                              |

## Handling

|                |              |
|----------------|--------------|
| Format:        | Liquid       |
| Concentration: | Lot specific |

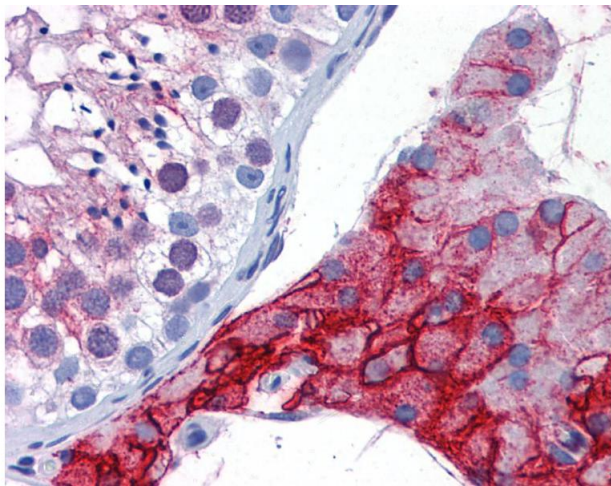
## Handling

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Buffer:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.                                     |
| 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 Advice:   | Avoid repeated freeze-thaw cycles.                                                                                                      |
| Storage:           | -20 °C                                                                                                                                  |
| Storage Comment:   | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Publications

|                   |                                                                                                                                                                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product cited in: | Mak, Chin, Cunningham, Habib, Torresi, Sharland, Alexander, Angus, Herath: "ACE2 Therapy Using Adeno-associated Viral Vector Inhibits Liver Fibrosis in Mice." in: <b>Molecular therapy : the journal of the American Society of Gene Therapy</b> , Vol. 23, Issue 9, pp. 1434-43, (2015) ( <a href="#">PubMed</a> ). |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Images



### Immunohistochemistry

Image 1.