

Product datasheet for **BP2277**

Angiotensin Converting Enzyme 2 (ACE2) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Suitable for use in Western blot (0.5 to 2 µg/ml). Human kidney or human testis cell lysate can be used as positive control and a 90 kDa band can be detected.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to amino acids 788 to 805 of human ACE2 (Genbank accession NP_068576).
Specificity:	Reacts with Human Angiotensin Converting Enzyme 2 (ACE2, SARS Receptor) C-terminal, amino acids 788 to 805. Does not crossreact with ACE1.
Formulation:	PBS containing 0.02 % Sodium azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8 °C. Should this product contain a precipitate we recommend microcentrifugation before use.
Stability:	Shelf life: one year from despatch.
Gene Name:	angiotensin I converting enzyme 2
Database Link:	Entrez Gene 59272 Human Q9BYF1

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Background:

Angiotensin converting enzyme 2 (ACE2) plays a central role in vascular, renal, and myocardial physiology. In contrast to its homolog ACE, ACE2 expression is restricted to heart, kidney, and testis. Recently ACE2 has also been shown to be a functional receptor of the SARS coronavirus. The normal function of ACE2 is to convert the inactive vasoconstrictor angiotensin I (AngI) to Ang1-9 and the active form AngII to Ang1 7, unlike ACE, which converts AngI to AngII. While the role of these vasoactive peptides is not well understood, lack of ACE2 expression in ace2-/ace2- mice leads to severely reduced cardiac contractility, indicating its importance in regulating heart function. ACE1 inhibitors such as catopril and lisinopril do not block ACE2 activity. The full length sequence for ACE2 encodes an 805 amino acid protein with predicted mass of 92.46 kDa and a pI of 5.22.

Synonyms:

Angiotensin-converting enzyme 2