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(818)-707-0392 (Fax)
order@abiocode.com
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ACE2 (vPair™) Antibodies

Cat#: R2825-vp

Lot#: Refer to vial

Predicted I Observed M.W.: 92 I 92, 125 kDa

Uniprot ID: P21802

Application: WB

Quantity: 50 ul ASMTL (N) (R0205-1) Rabbit Polyclonal Antibody &
50 ul ASMTL (C) (R0205-2) Rabbit Polyclonal Antibody

Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

Background:

Angiotensin-converting enzyme 2 (ACE2) is a single-pass type I membrane protein belonging to the peptidase M2 family. ACE2 is a carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. ACE2 is also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. ACE2 may be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, ACE2 serve as functional receptor for the spike glycoprotein of both coronaviruses.

Other Names:

Angiotensin-converting enzyme 2, ACE-related carboxypeptidase, Angiotensin-converting enzyme homolog, ACEH, Metalloprotease MPR0T15

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with GST-fusion proteins containing either the N-terminal [ACE2 (N) (R2825-1)] or the C-terminal [ACE2 (C) (R2825-2)] region of human ACE2. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

**For research use only. Not for therapeutic or diagnostic purposes.
Abiocode, Inc., 29397 Agoura Rd., Ste 106, Agoura Hills, CA 91301**

Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

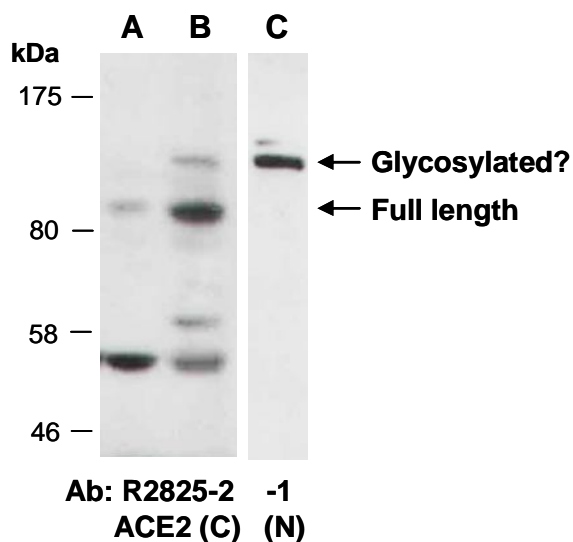


Fig 1. Western blot of total cell extracts from (A) mouse thymus, (B, C) human HeLa; using 2 independent Abs against 2 distinct regions of human ACE2 at RT for 2 h.