

Recombinant Dog ACE2 Protein, Fc-tagged

Cat. No. ACE2-032D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog ACE2 Protein (18-739) was expressed in CHO cells using a C-terminal Fc tag.
Species	Dog
Source	CHO
ProteinLength	18-739
Description	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 secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. ACE2 is known to be expressed in various human organs, and its organ- and cell-specific expression 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 coronavirus HCoV-NL63 and the human severe acute respiratory syndrome coronaviruses, SARS-CoV and SARS-CoV-2, the latter is the causative agent of coronavirus disease-2019 (COVID-19). Multiple splice variants have been found for this gene and the dACE2 (or MIRb-ACE2) splice variant has been found to be interferon inducible.
Molecular Mass	150 kDa
Purity	> 90%

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Applications	ELISA
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot targets into smaller quantities after centrifugation and store at the recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	1 µg/µL
Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 90 mM glycine.
Shipping	Dry ice

GENE INFORMATION

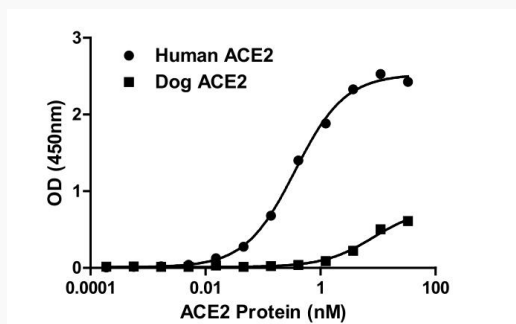
Gene Name	ACE2 angiotensin converting enzyme 2 [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	ACE2
Synonyms	ACE2; angiotensin converting enzyme 2; angiotensin-converting enzyme 2; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2; angiotensin I converting enzyme 2; EC 3.4.17.23
Gene ID	480847
mRNA Refseq	NM_001165260
Protein Refseq	NP_001158732
UniProt ID	C7ECV0

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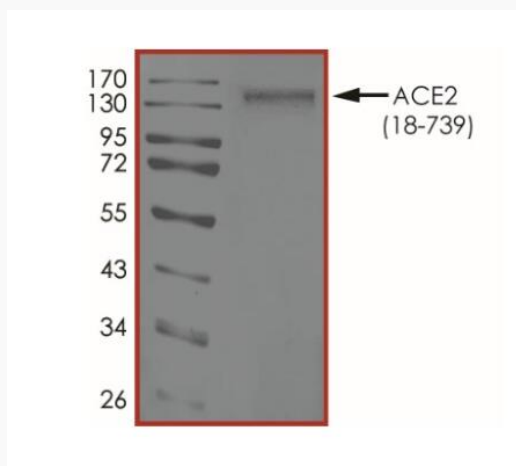
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Activity



Binding ability measured in a functional ELISA. Unlike human ACE2, Dog ACE2 (18-739) Protein does not bind well to immobilized 2019-nCoV Spike Protein RBD.

Purity



The purity of Dog ACE2 (18-793) Protein was determined to be > 90 % by densitometry, approx. MW 150 kDa.