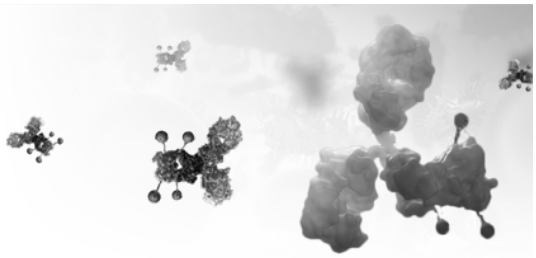

Mouse Anti-Human ACE2 monoclonal antibody, clone 282717 (CABT-L948M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse Anti-Human ACE2 monoclonal antibody, clone 282717
Specificity	Detects human ACE-2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) ACE-1 or rhNeprilysin is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ACE-2 (18-740)
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	282717
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	Recommended dilution: WB: 2 µg/mL, IHC: 8-25 µg/mL
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Format	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose
Buffer	PBS with Trehalose
Preservative	None
Storage	Store at -20°C.

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Ship	Wet ice

BACKGROUND

Introduction	Angiogensin I Converting Enzyme-2 (ACE-2), also called ACEH (ACE homolog), is a type I transmembrane zinc protease that cleaves angiotensins I and II to produce vasodilatory and anti-proliferative peptides. The balance between ACE-1 and ACE-2 activity is critical for maintaining cardiovascular, renal, and pulmonary function.ACE-2 also functions as the cellular uptake receptor for the SARS coronoavirus. Within the extracellular domain, human ACE-2 shares 83% aa sequence identity with mouse and rat ACE-2. Human ACE-2 has about 40% amino acid identity to the N- and C-terminal domains of human somatic ACE. The predicted human ACE-2 protein sequence consists of 805 amino acids, including a N-terminal signal peptide, a single catalytic domain, a C-terminal membrane anchor, and a short cytoplasmic tail. ACE-2 mRNA is found at high levels in testis, kidney and heart and at moderate levels in colon, small intestine and ovary. Classical ACE inhibitors such as captopril and lisinopril do not inhibit ACE-2 activity. Novel peptide inhibitors of ACE-2 do not inhibit ACE activity.
Keywords	ACE 2;ACE related carboxypeptidase;ACE-related carboxypeptidase;ACE2;ACE2_HUMAN;ACEH

GENE INFORMATION

Official Symbol	angiotensin I converting enzyme 2
Synonyms	ACE2; angiotensin I converting enzyme 2; ACEH; angiotensin-converting enzyme 2; peptidyl-dipeptidase A; metalloprotease MPROT15; ACE-related carboxypeptidase; angiotensin-converting enzyme homolog; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2;
Entrez Gene ID	#59272

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