

Mouse ACE2 Antibody Pair Set

Catalog No. E-KAB-0718

Applications

ELISA

Synonyms ACEH;ACEII

Kit components & Storage

Title	Specifications	Storage
Mouse ACE2 Capture Antibody	1 vial, 100 µg	Store at -20℃. Avoid freeze / thaw cycles.
Mouse ACE2 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20℃. Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

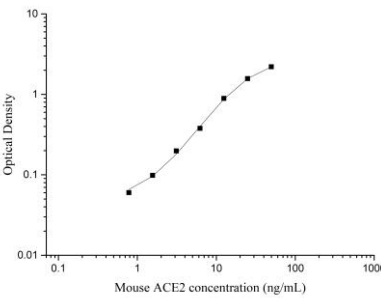
Product Information

Items		Characteristic (E-KAB-0718)	
		Mouse ACE2 Capture Antibody	Mouse ACE2 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse ACE2 protein	Recombinant Mouse ACE2 protein
	Swissprot	Q8R0I0	
Product details	Reactivity	Mouse	Mouse
	Host	Goat	Rat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Affinity purification	Protein A or G
	Specificity	Detects Mouse ACE2 in ELISAs.	

For Research Use Only

Applications

Mouse ACE2 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4ug/mL	Mouse ACE2 Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Mouse ACE2 concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>0.5</td><td>0.05</td></tr><tr><td>1</td><td>0.1</td></tr><tr><td>2</td><td>0.2</td></tr><tr><td>5</td><td>0.5</td></tr><tr><td>10</td><td>1.0</td></tr><tr><td>20</td><td>1.5</td></tr><tr><td>50</td><td>2.0</td></tr><tr><td>100</td><td>2.5</td></tr></tbody></table>	Mouse ACE2 concentration (ng/mL)	Optical Density	0.5	0.05	1	0.1	2	0.2	5	0.5	10	1.0	20	1.5	50	2.0	100	2.5
Mouse ACE2 concentration (ng/mL)	Optical Density																				
0.5	0.05																				
1	0.1																				
2	0.2																				
5	0.5																				
10	1.0																				
20	1.5																				
50	2.0																				
100	2.5																				
ELISA Detection	1:1000-1:10000	Mouse ACE2 Detection Antibody (Biotin)																			

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

ACE2 is a member of the angiotensin-converting enzyme family of dipeptidyl carboxypeptidases. It catalyzes the cleavage of the decapeptide angiotensin I into angiotensin-(1-9) and angiotensin II (potent vasoconstrictor) into the vasodilator angiotensin-(1-7). ACE2 is a type I membrane protein that functions as a carboxypeptidase. It cleaves between a proline and a single hydrophobic/basic residue from the COOH-terminus of its substrates. ACE2 is a zinc metalloprotease with considerable homology to angiotensin I-converting enzyme (ACE), both enzymes contain the typical HEXXH zinc-binding motif, ACE has two catalytic sites and ACE2 has only one, and ACE2 is not inhibited by ACE inhibitors captopril, lisinopril, and enalaprilat. Studies in mice showed that disruption of ACE2 induced a severe cardiac contractility defect and increased angiotensin II levels in heart. Human ACE2 has been identified as the receptor for SARS (severe acute respiratory syndrome)-coronavirus.