

Rat ACE Antibody Pair Set

Catalog No.	E-KAB-0721	Applications	ELISA
Synonyms	ACE1;CD143;DCP;DCP1;ICH;MVCD3		

Kit components & Storage

Title	Specifications	Storage
Rat ACE Capture Antibody	1 vial, 100 µg	Store at -20°C. Avoid freeze / thaw cycles.
Rat ACE Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C. Avoid freeze / thaw cycles.

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

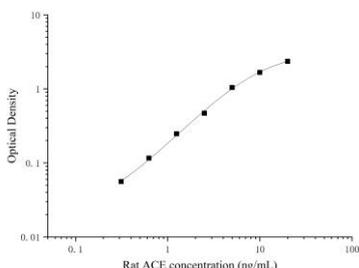
Product Information

Items		Characteristic (E-KAB-0721)	
		Rat ACE Capture Antibody	Rat ACE Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat ACE protein	Recombinant Rat ACE protein
	Swissprot	P47820	
Product details	Reactivity	Rat	Rat
	Host	Goat	Goat
	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	Affinity purification
	Specificity	Detects Rat ACE in ELISAs.	

For Research Use Only

Applications

Rat ACE Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images																				
ELISA Capture	0.5-4ug/mL	Rat ACE Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Rat ACE concentration (ng/mL). The x-axis ranges from 0.1 to 100 ng/mL, and the y-axis ranges from 0.01 to 10. The data points form a nearly straight line with a positive slope, indicating a linear relationship between the log of concentration and the log of optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat ACE concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.2</td><td>0.05</td></tr> <tr><td>0.5</td><td>0.1</td></tr> <tr><td>1</td><td>0.2</td></tr> <tr><td>2</td><td>0.4</td></tr> <tr><td>5</td><td>0.8</td></tr> <tr><td>10</td><td>1.5</td></tr> <tr><td>20</td><td>2.5</td></tr> <tr><td>50</td><td>4.5</td></tr> <tr><td>100</td><td>8</td></tr> </tbody> </table>	Rat ACE concentration (ng/mL)	Optical Density	0.2	0.05	0.5	0.1	1	0.2	2	0.4	5	0.8	10	1.5	20	2.5	50	4.5	100	8
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ELISA Detection	1:1000-1:10000	Rat ACE Detection Antibody (Biotin)																					

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

Background

CD143 (ACE,kininase II,peptidyl dipeptidase 1,peptidase P,carboxycathepsin) is a 171 kD,type I,single chain transmembranal metallopeptidase,whose cofactor is zinc. Its main targets are angiotensin I and bradykinin,acting as a blood pressure regulator. CD143 is expressed in endothelial cells, varying amounts of CD143 have been reported in different epithelial cells. The activation of macrophages and histiocytes induces the expression of this molecule.