

## Rat VCAM-1/CD106 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0394	<b>Applications</b>	ELISA
<b>Synonyms</b>	CD106, INCAM-100		

### Kit components & Storage

Title	Specifications	Storage
Rat VCAM-1/CD106 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Rat VCAM-1/CD106 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

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

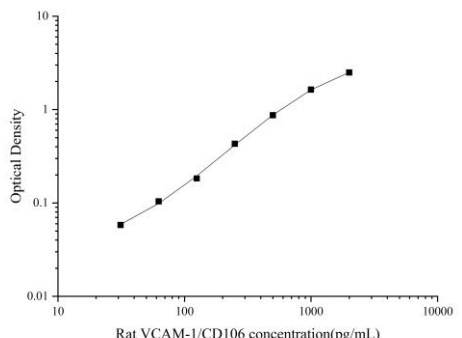
### Product Information

Items		Characteristic (E-KAB-0394)	
		Rat VCAM-1/CD106 Capture Antibody	Rat VCAM-1/CD106 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat VCAM-1/CD106 protein	Recombinant Rat VCAM-1/CD106 protein
	Swissprot	P29534	
Product details	Reactivity	Rat	Rat
	Host	Rabbit	Rabbit
	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Rat VCAM-1/CD106 in ELISAs.	

### For Research Use Only

## Applications

### Rat VCAM-1/CD106 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Rat VCAM-1/CD106 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Rat VCAM-1/CD106 concentration (pg/mL). The y-axis (Optical Density) ranges from 0.01 to 10, and the x-axis (Rat VCAM-1/CD106 concentration) ranges from 10 to 10000. The data points form a straight line, indicating a linear relationship between the concentration and the optical density on this scale.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat VCAM-1/CD106 concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>100</td> <td>0.2</td> </tr> <tr> <td>1000</td> <td>0.8</td> </tr> <tr> <td>10000</td> <td>3.0</td> </tr> </tbody> </table>	Rat VCAM-1/CD106 concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	0.8	10000	3.0
Rat VCAM-1/CD106 concentration (pg/mL)	Optical Density												
10	0.05												
100	0.2												
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10000	3.0												
ELISA Detection	1:1000-1:10000	Rat VCAM-1/CD106 Detection Antibody (Biotin)											

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

## Background

Cell adhesion glycoprotein predominantly expressed on the surface of endothelial cells that plays an important role in immune surveillance and inflammation. Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins. During inflammatory responses, binds ligands on the surface of activated endothelial cells to initiate the activation of calcium channels and the plasma membrane-associated small GTPase RAC1 leading to leukocyte transendothelial migration. Serves also as a quality-control checkpoint for entry into bone marrow by providing a 'don't-eat-me' stamping in the context of major histocompatibility complex (MHC) class-I presentation.

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