

Mouse VCAM-1/CD106 Antibody Pair Set

Catalog No.	E-KAB-0342	Applications	ELISA
Synonyms	VCAM1, CD106, INCAM-100, vascular cell adhesion molecule 1		

Kit components & Storage

Title	Specifications	Storage
Mouse VCAM-1/CD106 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Mouse 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.

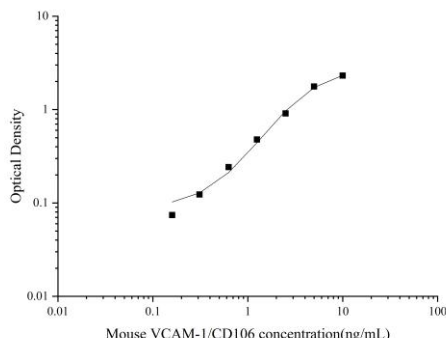
Product Information

Items		Characteristic (E-KAB-0342)	
		Mouse VCAM-1/CD106 Capture Antibody	Mouse VCAM-1/CD106 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse VCAM-1/CD106 protein	Recombinant Mouse VCAM-1/CD106 protein
	Swissprot	P29533	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	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	Protein A or G	Protein A or G
Specificity	Detects Mouse VCAM-1/CD106 in ELISAs.		

For Research Use Only

Applications

Mouse VCAM-1/CD106 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4μg/mL	Mouse VCAM-1/CD106 Capture Antibody	 <p>The graph is a log-log plot. The x-axis is labeled 'Mouse VCAM-1/CD106 concentration(ng/mL)' and ranges from 0.01 to 100. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The data points are connected by a smooth curve, showing a clear upward trend. Approximate data points are as follows:</p> <table border="1"> <thead> <tr> <th>Mouse VCAM-1/CD106 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.1</td><td>0.08</td></tr> <tr><td>0.2</td><td>0.12</td></tr> <tr><td>0.5</td><td>0.25</td></tr> <tr><td>1</td><td>0.4</td></tr> <tr><td>2</td><td>0.7</td></tr> <tr><td>5</td><td>1.5</td></tr> <tr><td>10</td><td>2.5</td></tr> </tbody> </table>	Mouse VCAM-1/CD106 concentration (ng/mL)	Optical Density	0.1	0.08	0.2	0.12	0.5	0.25	1	0.4	2	0.7	5	1.5	10	2.5
Mouse VCAM-1/CD106 concentration (ng/mL)	Optical Density																		
0.1	0.08																		
0.2	0.12																		
0.5	0.25																		
1	0.4																		
2	0.7																		
5	1.5																		
10	2.5																		
ELISA Detection	1:1000-1:10000	Mouse 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

Vascular cell adhesion molecule 1 (VCAM1), also known as CD106, is a transmembrane glycoprotein belonging to the immunoglobulin gene superfamily. VCAM1 is expressed by cytokine-activated endothelium, interacts with integrin VLA4 ($\alpha 4\beta 1$) present on the surface of leukocytes, and mediates both adhesion and signal transduction. It is also expressed either constitutively or inducibly in a variety of other cell types, including vascular smooth muscle cells, differentiating skeletal muscle cells, renal and neural epithelial cells, macrophages (Kupffer cells), dendritic cells, and bone marrow stromal cells.