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# Rat ICAM-1/CD54 Antibody Pair Set

Catalog No. E-KAB-0099 Applications ELISA

**Synonyms** ICAM1, BB2, CD54, P3.58, intercellular adhesion molecule 1

## **Kit components & Storage**

Title	Specifications	Storage
Rat ICAM-1/CD54 Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year.
		Avoid freeze / thaw cycles.
Rat ICAM-1/CD54 Detection Antibody	1 vial, 50 μL	Store at -20°C for one year.
(Biotin)		Avoid freeze / thaw cycles.

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

#### **Product Information**

Items		Characteristic (E-KAB-0099)		
		Rat ICAM-1/CD54 Capture Antibody	Rat ICAM-1/CD54 Detection Antibody	
			(Biotin)	
Immunogen	Immunogen	Recombinant Rat ICAM-1/CD54	Recombinant Rat ICAM-1/CD54	
Information		protein	protein	
	Swissprot	Q00238		
]	Reactivity	Rat	Rat	
	Host	Mouse	Goat	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Protein A or G	Antigen Affinity	
	Specificity	Detects Rat ICAM-1/CD54 in ELISAs.		

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### **Applications**

Rat ICAM-1/CD54 Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4μg/mL	Rat ICAM-1/CD54 Capture	
Capture		Antibody	10 25 25
ELISA Detection	1:1000-1:10000	Rat ICAM-1/CD54 Detection Antibody (Biotin)	Rat ICAM-1/CD54 concentration(ng/mL)

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

#### **Background**

ICAM-1 (intercellular adhesion molecule-1), also known as CD54, is a transmembrane protein that is upregulated on endothelial and epithelial cells at sites of inflammation. It mediates the vascular adhesion and paracellular migration of leukocytes expressing activated LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18). It also binds several non-integrin ligands including CD43/Sialophorin, Fibrinogen, Hyaluronan, rhinoviruses, and Plasmodium falciparum-infected erythrocytes. Soluble ICAM-1 promotes angiogenesis and serves an indicator of vascular endothelial cell activation or damage. Elevated levels of soluble ICAM-1 are associated with cardiovascular disease, type 2 diabetes, organ transplant dysfunction, oxidant stress, increased abdominal fat mass, hypertension, liver disease, certain malignancies, and cerebral malaria.

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