

Rat KIM-1 Antibody Pair Set

Catalog No.	E-KAB-0107	Applications	ELISA
Synonyms	HAVCR1, HAVCR, HAVCR-1, KIM-1, KIM1, TIM, TIM-1, TIM1, TIMD-1, TIMD1		

Kit components & Storage

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

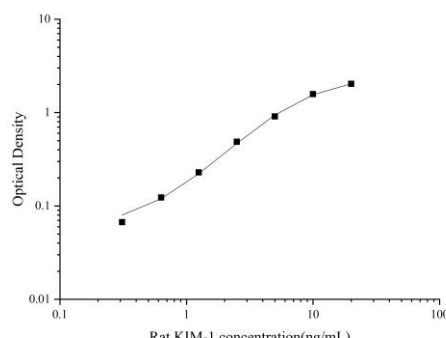
Product Information

Items		Characteristic (E-KAB-0107)	
		Rat KIM-1 Capture Antibody	Rat KIM-1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat KIM-1 protein	Recombinant Rat KIM-1 protein
	Swissprot	O54947	
Product details	Reactivity	Rat	Rat
	Host	Mouse	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	Protein A or G	Antigen Affinity
	Specificity	Detects Rat KIM-1 in ELISAs.	

For Research Use Only

Applications

Rat KIM-1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images														
ELISA Capture	0.5-4μg/mL	Rat KIM-1 Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Rat KIM-1 concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>0.1</td><td>0.05</td></tr><tr><td>0.5</td><td>0.15</td></tr><tr><td>1</td><td>0.25</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></tbody></table>	Rat KIM-1 concentration (ng/mL)	Optical Density	0.1	0.05	0.5	0.15	1	0.25	5	0.8	10	1.5	20	2.5
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ELISA Detection	1:1000-1:10000	Rat KIM-1 Detection Antibody (Biotin)															

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

Background

KIM-1, also known as Kidney Injury Molecule 1 and Hepatitis A virus cellular receptor 1 homolog (HAVcr-1), or T-cell immunoglobulin and mucin domain 1 (TIM-1) is a 283 amino acid protein that contains an N-terminal immunoglobulin-like domain and is encoded by the HAVCR1 gene. KIM-1 is a single-pass type 1 membrane protein has been identified as a receptor for hepatitis A virus. The TIM gene family participates in host immune response. Urinary KIM-1 levels are elevated in nephropathy and is thought to be a biomarker for renal damage.

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