



Rat Kidney injury molecule 1,Kim-1 ELISA Kit

Product Code	CSB-E08808r
Abbreviation	Kim-1
Protein Biological Process 1	others
Target Name	hepatitis A virus cellular receptor 1
Uniprot No.	O54947
Alias	HAVCR, HAVCR-1, KIM-1, KIM1, TIM-1, TIM1, TIMD1, T cell immunoglobin domain and mucin domain protein 1 kidney injury molecule 1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, urine
Detection Range	0.313 ng/mL-20 ng/mL
Sensitivity	0.228 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	Havcr1
Tag Info	quantitative
Protein Description	Sandwich
Description	CLICADIOLO vot KIM 4 ELICA kit in on in vitro oneveno linkad immunocombant

CUSABIO's rat KIM-1 ELISA kit is an in vitro enzyme-linked immunosorbent assay for the quantitative determination of KIM-1 concentrations in serum, plasma, and urine. This assay exclusively recognizes rat KIM-1. The quantitative sandwich ELISA technique of this kit is based on KIM-1 antibody-KIM-1 antigen interactions and an HRP colorimetric detection system to detect the levels of KIM-1 in samples. The intensity of the color is positively proportional to the amount of bound KIM-1 in the initial step.

KIM-1 is a phosphatidylserine receptor that mediates the phagocytosis of apoptotic bodies and oxidized lipids. It is involved in HAV infections, autoimmunity, immune tolerance, and atopic diseases. In normal conditions, KIM-1 is expressed at low levels in the kidney and other organs, but its expression is remarkably increased following renal injury, especially after ischemia-reperfusion injury, enabling them to engulf apoptotic and necrotic cells

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during acute kidney injury (AKI). The urinary KIM-1 level is tightly linked to its tissue level and correspondingly related to kidney tissue damage. KIM-1 is a possible long-term renal outcome predictor in addition to being an early biomarker of AKI.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

	Intra-As	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3	
n	20	20 🕡	20	20	20	20	
Mean(ng/ml)	2.480	2.513	2.532	2.550	2.528	2.477	
SD	0.023	0.021	0.019	0.036	0.037	0.035	
CV(%)	2.561	2.315	2.083	3.926	4.061	3.902	

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of Rat Kim-1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
	Average %	83
1:1	Range %	80-94
	Average %	86
1:2	Range %	83-98
	Average %	89
1:4	Range %	86-95
	Average %	93
1:8	Range %	90-101

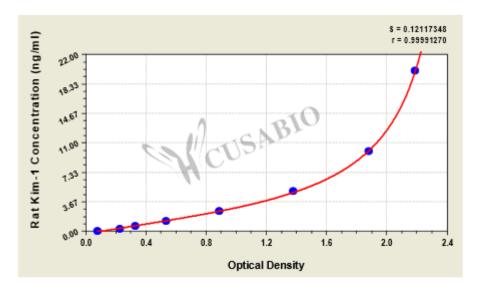
Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.









ng/ml	OD1	OD2	Average	Corrected
0	0.079	0.093	0.086	
0.313	0.237	0.243	0.240	0.154
0.625	0.337	/0.340	0.339	0.253
1.25	0.535	0.563	0.549	0.463
2.5	0.921	0.881	0.901	0.815
5	1.401	1.396	1.399	1.313
10	1.943	1.867	1.905	1.819
20	2.277	2.149	2.213	2.127

Msds

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