

Rat hepatitis A virus cellular receptor 1 ELISA Kit | Kim-1 elisa kit

Rat Kidney injury molecule 1, Kim-1 ELISA Kit

CATALOG #
AAA79696

REACTIVITY
Rat

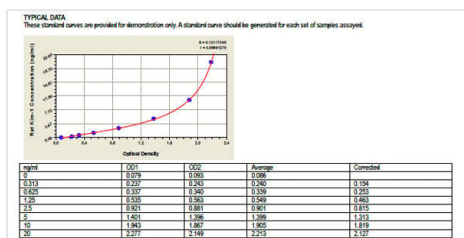
PRODUCT SYNONYMS

hepatitis A virus cellular receptor 1; Rat Kidney injury molecule 1; Kim-1 ELISA Kit; HAVCR; HAVCR-1; KIM-1; KIM1; TIM-1; TIM1; TIMD1; T cell immunoglobulin domain and mucin domain protein 1; kidney injury molecule 1; Kim-1; Kim-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat HAVCR1. No significant cross-reactivity or interference between Rat HAVCR1 and analogues was observed.
Sequence Length	307
Samples	Serum, plasma, urine
Detection Range	0.313 ng/ml-20 ng/ml
Sensitivity	0.228 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	others
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Kim-1 elisa kit

Introduction: Kim-1 (kidney injury molecule-1) is a type I transmembrane glycoprotein expressed on dedifferentiated renal proximal tubule epithelial cells undergoing regeneration after toxic or ischemic injury. The extracellular domain of Kim-1 is composed of an immunoglobulin-like domain topping a long mucin-like domain, a structure that points to a possible role in cell adhesion by homology to several known adhesion proteins. Two splice variants (a and b) of the human Kim-1 having identical extracellular domains, differ in their cytoplasmic domains and tissue distributions. In normal kidneys, Kim-1 is undetectable, but this molecule is abundantly expressed in PTC after ischemic and nephrotoxic injury. In mice, Kim-1 is upregulated in polycystic kidney disease especially in regions of the kidney where there is fibrosis. In humans and in rodents, Kim-1 is induced after ischemic or toxic acute tubular necrosis and the cleaved Kim-1 ectodomain is quantified in the urine as a biomarker for acute kidney injury. The early and abundant tubular expression following different types of injury makes Kim-1 a specific marker of tubular cell injury that may be linked to recuperative or damaging mechanisms that direct the process of interstitial damage.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Kim-1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for Kim-1 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain Kim-1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Kim-1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27465629
NCBI GeneID	286934
NCBI Accession #	NP_775172.1
NCBI GenBank Nucleotide #	NM_173149.2
UniProt Accession #	O54947
Molecular Weight	33,964 Da
NCBI Official Full Name	hepatitis A virus cellular receptor 1 homolog
NCBI Official Synonym Full Names	hepatitis A virus cellular receptor 1
NCBI Official Symbol	Havcr1
NCBI Official Synonym Symbols	Kim1; KIM-1
NCBI Protein Information	hepatitis A virus cellular receptor 1 homolog; TIMD-1; HAVcr-1; kidney injury molecule 1; t cell immunoglobulin and mucin domain-containing protein 1
UniProt Protein Name	Hepatitis A virus cellular receptor 1 homolog
UniProt Gene Name	Havcr1
UniProt Synonym Gene Names	Kim1; HAVcr-1; KIM-1; TIMD-1
UniProt Entry Name	HAVR1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/kim-1-rat-elisa-kits/hepatitis-a-virus-cellular-receptor-1/79696>