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## Datasheet for ABIN1112662

# **HAVCR1 ELISA Kit**



#### Overview

Quantity:	96 tests	
Target:	HAVCR1	
Reactivity:	Rat	
Method Type:	Sandwich ELISA	
Detection Range:	31.2-2000 pg/mL	
Minimum Detection Limit:	31.2 pg/mL	
Application:	ELISA	
Product Details		
Purpose:	For quantitative detection of KIM-1 in rat serum, plasma, urine, cell culture supernatant or tissue samples.	
Sample Type:	Serum, Plasma, Urine, Tissue Samples, Cell Culture Supernatant	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Components:	1. One 96-well plate pre-coated with anti-rat KIM-1 antibody 2. Standard: 0.5ml (2250pg /mL) 3. Standard diluent buffer: 1.5 ml 4. Wash buffer (30x): 20 ml.	
Material not included:	1. 37 °C incubator 2. Microplate reader (wavelength: 450nm) 3. Precise pipette and disposable	

### **Target Details**

Target Type:  Virus  KIM1, also known as Hepatitis A virus cellular receptor 1, is a protein that in humans is encode by the HAVCR1 gene, which maps to 5q33.2. It is a major cause of orally transmitted acute hepatitis, infects primate cells, but not dog or rat cells, after binding to the HAV cellular receptor (HAVCR). Infection of canine osteogenic sarcoma cells expressing HAVCR1 with HAV led Feigelstock et al. (1998) to conclude that the protein is indeed a receptor for the virus. Khaden et al. (2004) found that differential expression of TIMs by Th1 and Th2 cells may be implicated in different phases of an autoimmune disease.  Application Details  Comment:  This kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. The purified anti-KIM-1 antibody was pre-coated onto 96-well plates. And the HRP conjugated anti-KIM-1 antibody was used as detection antibodies. The standards test samples and HRP conjugated detection antibody were added to the wells subsequently mixed and incubated the unbound conjugates were washed away with wash buffer. TMB substrates (A & B) were used visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportiona to the KIM-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader and then the concentration of KIM-1 can be calculated.  Plate:  Pre-coated  1. Before the experiment, centrifuge each kit component for several minutes to bring down all reagents to the bottom of tubes. 2. It is recommend to measure each standard and sample in duplicate. 3. Do NOT let the plate completely dry at any time! Since the dry condition can inactivate the biological material on the plate. 4. Do not reuse pipette tips and tubes to avoid	Target:	HAVCR1	
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then, analyze immediately (within 2 hours). Or aliquot and store at -20 °C for long term. Avoid multiple freeze-thaw cycles. Serum: Coagulate at room temperature for 10-20 °C min, then, centrifuge at the speed of 2000-3000 r.p.m. for 20 min to collect supernatant. If precipitation appeared, centrifuge again. Plasma: Collect plasma using EDTA or citrate plasma as an anticoagulant, and mix for 10-20 °C min, centrifuge at the speed of 2000-3000 r.p.m. for 20 min of collection. If precipitation appeared, centrifuge again. Urine: Collect urine using a sterile container, centrifuge at the speed of 2000-3000 r.p.m. for 20 min to collect supernatant. If precipitation appeared, centrifuge again. For collection of hydrothorax and cerebrospinal fluid, take reference to this operation. Cell culture supernatant: For secretory components: use a sterile container to collect. Centrifuge at the speed of 2000-3000 r.p.m. for 20 min to collect supernatant. For intracellular components: Dilute cell suspension with PBS(pH7.2-7.4) to make the cell concentration reached 1 million / ml. Damage cells and release of intracellular components through repeated freeze-thaw cycles. Centrifuge at the speed of 2000-3000 r.p.m. For 20 min to collect supernatant. If precipitation appeared, centrifuge again. Tissue samples: Cut samples and weight, add certain volume of PBS (pH7.4), rapidly frozen with liquid nitrogen. After melting, store samples at 2-8 °C . Add certain volume of PBS (pH7.4), homogenize thoroughly, centrifuge at the speed of 2000-3000 r.p.m. for 20 min to collect supernatant. Note: 1. Coagulate blood samples completely, then, centrifuge, and avoid hemolysis and particle. 2. NaN 3 can not be used as test sample preservative, since it is the inhibitor for HRP. 3. After collecting samples, analyze immediately or aliquot and store frozen at -20 °C. Avoid repeated freeze-thaw cycles. 2. Wash buffer Dilute concentrated Wash buffer (Kit Component 4) 30-fold (1:30) with distilled water (i.e. add 20 ml of concentrated wash buffer into 580 ml of distilled water). 3. Standard Reconstitution of the Lyophilized rat KIM-1 standard (Kit Component 2): standard solution should be prepared no more than 2 hours prior to the experiment. Two tubes of standard are included in each kit. Use one tube for each experiment. (Note: Do not dilute the standard directly in the plate) a. 2000pg/ml of standard solution: Add 0.5 ml of the 2250pg/ml standard (Kit Component 2) into 0.0625 ml Standard diluent buffer (Kit Component 3) and mix thoroughly. b. 1000 pg/ml -> 31.2 pg/ml of standard solutions: Label 6 Eppendorf tubes with 1000 pg/ml, 500 pg/ml, 250 pg/ml, 125 pg/ml, 62.5 pg/ml, 31.2 pg/ml, respectively. Aliquot 0.2 ml of the Standard diluent buffer (Kit Component 3) into each tube. Add 0.2 ml of the above 4000 pg/ml standard solution into 1st tube and mix thoroughly. Transfer 0.2 ml from 1st tube to 2nd tube and mix thoroughly. Transfer 0.2 ml from 2nd tube to 3rd tube and mix thoroughly, and so on. Chongqing Biospes Co., Ltd Product Manual

Restrictions:

For Research Use only

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Preservative:

Sodium azide, Thimerosal (Merthiolate)