

Mouse KIM1/TIM1 ELISA Kit | Havcr1 elisa kit

Mouse KIM1/TIM1 Quick ELISA Kit

CATALOG #
AAA125881

REACTIVITY
Mouse

PRODUCT SYNONYMS

KIM1/TIM1; Mouse KIM1/TIM1 Quick ELISA Kit; TIM-1/KIM-1/HAVCR|CD365; HAVCR1; HAVCR-1; HAVCRT cell immunoglobulin domain and mucin domain protein 1; hepatitis A virus cellular receptor 1; Kidney injury molecule 1; KIM1; KIM-1; T-cell immunoglobulin and mucin domain-containing protein 1; TIM1; TIM-1; TIM-1TIM; TIM1TIMD-1; TIMD1T-cell membrane protein 1; Havcr1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Havcr1
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, serum, plasma (heparin, EDTA) and urine
Detection Range	31.2pg/ml-2,000pg/ml
Sensitivity	<2pg/ml
Capture/Detection Antibodies	Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.049 0.144 0.221 0.371 0.656 1.143 1.803 2.355
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 83 296 863 Standard deviation 6.47 16.28 36.25 CV(%) 7.8% 5.5% 4.2%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 79 265 805 Standard deviation 6.95 14.05 37.84 CV(%) 8.8% 5.3% 4.7%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 83 91 91 99 91 3.19 3.5% Sample 2: 296 269 241 277 271 13.81 5.1% Sample 3: 863 722 826 797 802 42.51 5.3% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: Y22-T212
Anticoagulant	heparin or EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Mouse KIM1/TIM1 with <2pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Mouse Havcr1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Havcr1 in cell culture supernatants, serum, plasma (heparin, EDTA) and urine. It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Mouse Havcr1 with immunogen: Expression system for standard: NS0; Immunogen sequence: Y22-T212. To measure Mouse Havcr1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Mouse Havcr1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Havcr1 in the sample.
Assay Procedure Step 1	2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.25pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for Havcr1 elisa kit	KIM1(TIM-1), also known as Hepatitis A virus cellular receptor 1, is a protein that in Mouses is encoded by the HAVCR1 gene. 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. Immunofluorescence microscopy demonstrated internalization of HAV by dog cells expressing HAVCR1. Using a monoclonal antibody to mouse Tim1, Umetsu et al. (2005) showed that Tim1 was expressed after activation of naive T cells and on T cells differentiated in Th2-polarizing conditions. By homology of synteny with the mouse Tim1 gene and database analysis, McIntire et al. (2001) mapped the HAVCR1 gene to 5q33. 2. The standard used in this kit is recombinant mouse KIM-1, constituting from Y22-T212 amino acids, and 191amino acids with the molecular mass of 21. 8KDa.
Product Categories/Family for Havcr1 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	262231823
NCBI GeneID	171283
NCBI Accession #	NP_001160103.1
NCBI GenBank Nucleotide #	NM_001166631.1
UniProt Accession #	Q5QNS5 ; Q7TPU2 ; Q8VIM1 ; Q8VIM2
Molecular Weight	30,925 Da
NCBI Official Full Name	hepatitis A virus cellular receptor 1 homolog isoform b
NCBI Official Synonym Full Names	hepatitis A virus cellular receptor 1
NCBI Official Symbol	Havcr1

NCBI Official Synonym Symbols	Tim1; KIM-1; TIM-1; Timd1; AI503787
NCBI Protein Information	hepatitis A virus cellular receptor 1 homolog
UniProt Protein Name	Hepatitis A virus cellular receptor 1 homolog
UniProt Gene Name	Havcr1
UniProt Synonym Gene Names	Kim1; Tim1; Timd1; HAVcr-1; KIM-1; TIMD-1; TIM-1
UniProt Entry Name	HAVR1_MOUSE

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/havcr1-mouse-elisa-kits/kim1-tim1/125881>