

Datasheet for KOA0531**Rat KIM1 ELISA Kit****Overview**

Description:	Rat KIM1 AccuSignal ELISA Kit - KOA0531
Item No.:	KOA0531
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

Background:	KIM1(TIM-1), also known as Hepatitis A virus cellular receptor 1, is a protein that in Rat is encoded by the HAVCR1 gene. Infection of canine osteogenic sarcoma cells expressing HAVCR1 with HAV led 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 rat Tim1, Tim1 was expressed after activation of naive T cells and on T cells differentiated in Th2-polarizing conditions. By homology of syntenic with the rat Tim1 gene and database analysis, was mapped the HAVCR1 gene to 5q33.2.
Synonyms:	HAVCR, HAVcr-1, Havcr1, HAVR1_HUMAN, Hepatitis A virus cellular receptor 1, Kidney injury molecule 1, KIM-1, T cell immunoglobulin domain and mucin domain protein 1, T-cell immunoglobulin and mucin domain-containing protein 1, T-cell membrane protein 1, TIM, TIM-1, TIM1, TIMD-1, TIMD1
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<2 pg/ml

Target Details

Gene Name:	HAVCR1
Reactivity:	Rat
Immunogen:	Expression system for standard: NSO; Immunogen sequence: S18-V238

Purity/Specificity:	Natural and recombinant rat KIM1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - O54947 • NCBI - NP_775172.1 • GeneID - 286934 • KOA0531 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml rat KIM1 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernates, tissue homogenates, serum, plasma(heparin, EDTA) or urine to each empty well. It is recommended that each rat KIM1 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

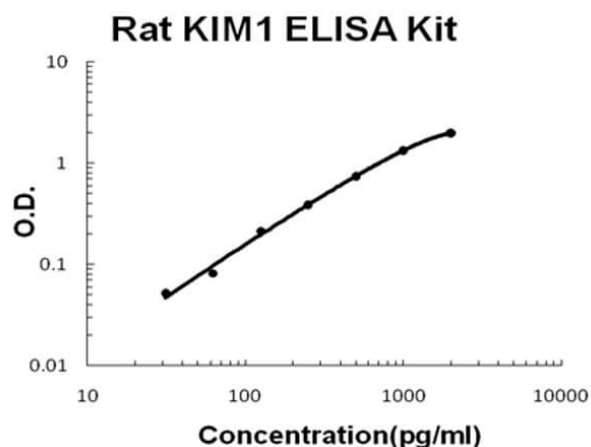
Formulation

Anticoagulant:	Heparin Sodium
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Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images

**ELISA**

Rat KIM1 AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <2pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.