

Rabbit Anti-Rat KIM-1 / TIM1 / HACVR1 Monoclonal Antibody

Cat. No. CAB11551RR **Lot. No.** (See product label)

SPECIFICATION

Product Overview Rabbit Monoclonal Antibody to Rat KIM-1 / TIM1 / HACVR1

Species Rat

Source Rabbit

Antigen Description

Mouse hepatitis A virus cellular receptor 1 (HAVCR1), also known as T cell immunoglobulin and mucin domain-containing protein 1 (TIMD1) and T cell membrane protein 1 (TIM1), is a member of the TIM family, an immunologically important group of receptors that is conserved in vertebrates. TIM1 is widely expressed with highest levels in kidney and testis. It has been shown that mouse HAVCR1 is expressed by stimulated T-cells during primary antigen stimulation and associates with immunomodulatory properties. TIM1 is a type 1 integral membrane glycoprotein, and in the ECD contains one V-type Ig-like domain extended above the cell surface by a mucin-like domain characterized by a variable number of threonine, serine, and proline (TSP) hexameric repeats. Extensive O-linked glycosylation resulted in the 70-80 kDa molecular mass more higher than the calculated MW(33kDa). TIM1 plays a critical role in T-helper cell development and the regulation of asthma and allergic diseases. In addition to HAV, another identified ligand for TIM1 is TIMD4. Mouse TIM1 ECD shares 50% and 80% amino acid sequence homology with human and rat TIM1 ECD respectively.

Specificity

Rat KIM-1 / TIM1 / HACVR1. No cross-reactivity in ELISA with Mouse KIM-1 / TIM1, Human KIM-1 / TIM1, Human TIMD3, Human cell lysate (293 cell line)

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Immunogen	Recombinant Rat KIM-1 / TIM1 / HAVCR1 Protein
Isotype	Rabbit IgG
Cross Reactivity	104
Clone	A105
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect rat KIM1 in WB. Using a DAB detection system, the detection limit for rat KIM1 is approximately 0.125 ng/lane under non-reducing conditions and 0.25 ng/lane under reducing conditions. ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect rat KIM1. The detection limit for rat KIM1 is approximately 0.00975 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Rat
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.
GENE INFORMATION	
Gene Name	Havcr1 hepatitis A virus cellular receptor 1 [Rattus norvegicus]

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Official Symbol	Havcr1
Synonyms	HAVCR1; hepatitis A virus cellular receptor 1; hepatitis A virus cellular receptor 1 homolog; TIMD-1; HAVcr-1; kidney injury molecule 1; t cell immunoglobulin and mucin domain-containing protein 1; Kim1; KIM-1;
Gene ID	286934
mRNA Refseq	NM_173149
Protein Refseq	NP_775172
Function	molecular_function;

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