

Datasheet for ABIN3044229  
**anti-HAVCR1 antibody (C-Term)**



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## Overview

Quantity:	100 µg
Target:	HAVCR1
Binding Specificity:	AA 289-307, C-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HAVCR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Hepatitis A virus cellular receptor 1 homolog(HAVCR1) detection. Tested with WB, IHC-P, IHC-F in Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of rat TIM 1(289-307aa HPRAEDNIYIIEDRSRGAE).
Sequence:	HPRAEDNIYI IEDRSRGAE
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Hepatitis A virus cellular receptor 1 homolog(HAVCR1) detection. Tested with WB, IHC-P, IHC-F in Rat. Gene Name: hepatitis A virus cellular receptor 1

## Product Details

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Protein Name: Hepatitis A virus cellular receptor 1 homolog(HAVcr-1)

Purification: Immunogen affinity purified.

## Target Details

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Target: HAVCR1

Alternative Name: HAVCR1 ([HAVCR1 Products](#))

Target Type: Virus

Background: KIM1(KIDNEY INJURY MOLECULE 1), also known as HAVCR1, HAVCR or TIM1, is a protein that in humans is encoded by the KIM1 gene. The KIM1 gene is mapped to 5q33.3. Biochemical, mutational, and cell adhesion analyses confirm that Tim1 is capable of homophilic Tim-Tim interactions. The features identified in murine KIM1 is conserved in human KIM1. The KIM1 protein is indeed a receptor for the virus through the infection of canine osteogenic sarcoma cells expressing HAVCR1 with HAV. Using a monoclonal antibody to mouse Tim1, Tim1 is expressed after activation of naive T cells and on T cells differentiated in Th2-polarizing conditions. Ectopic expression of KIM1 during mouse T-cell differentiation leads to production of the Th2-type cytokine Il4, but not the Th1-type cytokine Ifng. KIM1-expressing epithelial cells internalized apoptotic bodies, and Kim1 is directly responsible for phagocytosis in cultured primary rat tubule epithelial cells and in porcine and canine epithelial cell lines.

Synonyms: HAVCR 1 antibody|HAVcr-1 antibody|HAVCR1 antibody|Hepatitis A virus cellular receptor 1 antibody|Kidney injury molecule 1 antibody|KIM 1 antibody|KIM-1 antibody|T cell immunoglobulin domain and mucin domain protein 1 antibody|T-cell immunoglobulin and mucin domain-containing protein 1 antibody|T-cell membrane protein 1 antibody|TIM antibody|TIM-1 antibody|TIM1 antibody|TIMD 1 antibody|TIMD-1 antibody|TIMD1 antibody|TIMD1\_HUMAN antibody

UniProt: [054947](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat

## Application Details

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Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

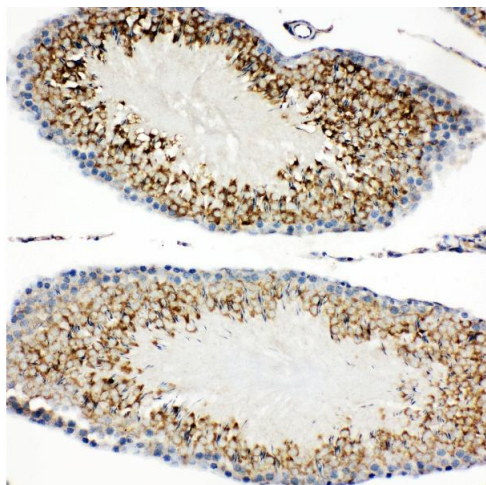
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months



### Western Blotting

**Image 1.** Anti-TIM 1 antibody, Western blotting Lane 1: SMMC Cell Lysate Lane 2: HELA Cell Lysate Lane 3: PANC Cell Lysate Lane 4: MM231 Cell Lysate Lane 5: MM453 Cell Lysate



### Immunohistochemistry

**Image 2.** Anti-TIM 1 antibody, IHC(P) IHC(P): Rat Testis Tissue



### Western Blotting

**Image 3.** Western blot analysis of KIM1 using anti-KIM1 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat kidney tissue lysates, Lane 2: rat testis tissue lysates, Lane 3: rat heart tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KIM1 antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody

at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for KIM1 at approximately 50KD. The expected band size for KIM1 is at 39KD.