

Rabbit anti-Rat TIM 1 Polyclonal Antibody | anti-HAVCR1 antibody

Anti-TIM 1 antibody

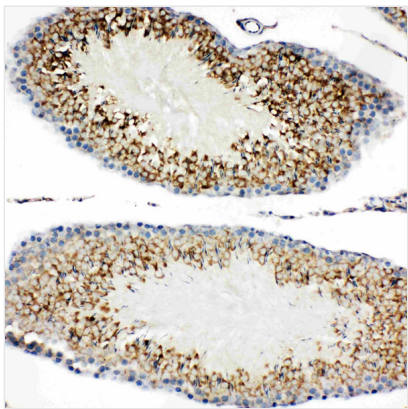
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA44922	Rabbit	Rat	Immunohistochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

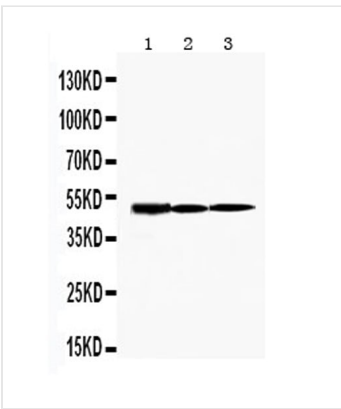
TIM 1; Polyclonal Antibody; Anti-TIM 1 antibody; Hepatitis A virus cellular receptor 1 homolog(HAVcr-1); hepatitis A virus cellular receptor 1; HAVCR 1 antibody; HAVcr-1 antibody; HAVCR1 antibody; Hepatitis A virus cellular receptor 1 antibody; Kidney injury molecule 1 antibody; KIM 1 antibody; KIM-1 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; anti-HAVCR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized; Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃
Sequence Length	307
Applicable Applications for anti-HAVCR1 antibody	IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of rat TIM 1 (289-307aa HPRAEDNIYIIEDRSRGAE).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	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.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of KIM1 using anti- KIM1 antibody (AAA44922).KIM1 was detected in paraffin-embedded section of rat testis tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- KIM1 Antibody (AAA44922) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of KIM1 using anti-KIM1 antibody (AAA44922).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 at 0.5ug/mL overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for KIM1 at approximately 50KD. The expected band size for KIM1 is at 39KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HAVCR1 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	73919879
NCBI GeneID	286934
UniProt Accession #	O54947
NCBI Official Full Name	Hepatitis A virus cellular receptor 1 homolog
NCBI Official Synonym Full Names	hepatitis A virus cellular receptor 1
NCBI Official Symbol	Havcr1
NCBI Official Synonym Symbols	Kim1; KIM-1
NCBI Protein Information	hepatitis A virus cellular receptor 1 homolog; TIMD-1; HAVcr-1; kidney injury molecule 1; t cell immunoglobulin and mucin domain-containing protein 1
UniProt Protein Name	Hepatitis A virus cellular receptor 1 homolog
UniProt Gene Name	Havcr1

UniProt Synonym Gene Names	Kim1; HAVcr-1; KIM-1; TIMD-1
UniProt Entry Name	HAVR1_RAT

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/polyclonal/tim-1-antibody-immunohistochemistry-immunohistochemistry-western-blot-elisa/44922>