Anti-KIM-1/HAVCR1 Antibody [JE39-41]

HA721535

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 39 kDa
Clone number:	JE39-41

Description: Hepatitis A virus cellular receptor 1 (HAVcr-1) also known as T-cell immunoglobulin and mucin domain 1 (TIM-1) is a protein that in humans is encoded by the HAVCR1 gene. It is also known as KIM-1 Kidney Injury Molecule -1, which is a type 1 transmembrane protein the most highly upregulated in injured kidneys by various types of insults. Its upregulation during renal injury has been found in the kidneys of the vertebrates such as Zebrafish and humans. The hepatitis A virus cellular receptor 1 (HAVCR1/TIM-1), is a member of the TIM (T cell transmembrane, immunoglobulin, and mucin) gene family, which plays critical roles in regulating immune cell activity especially regarding the host response to viral infection. TIM-1 is also involved in allergic response, asthma, and transplant tolerance. The TIM gene family was first cloned from the mouse model of asthma in 2001. Subsequently, it was demonstrated that members of the TIM gene family including TIM-1 participate in host immune response. The mouse TIM gene family contains eight members (TIM-1-8) while only three TIM genes (TIM-1, TIM-3, and TIM-4) have been identified in humans.

Immunogen: Synthetic peptide within Human TIM 1 aa 51-100 / 364.

Positive control: Huh7 cell lysate, HepG2 cell lysate, NCI-H441 cell lysate, Jurkat cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, PC-12 cell lysate.

Subcellular location: Cell membrane.

Database links: SwissProt: Q96D42 Human | Q5QNS5 Mouse | O54947 Rat

Recommended Dilutions:

WB	1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

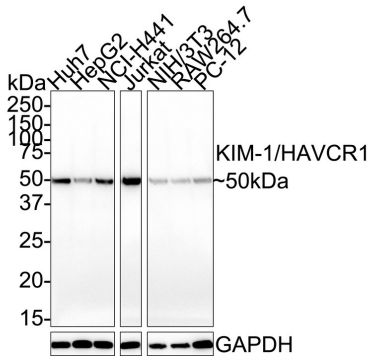

Fig1: Western blot analysis of KIM-1/HAVCR1 on different lysates with Rabbit anti-KIM-1/HAVCR1 antibody (HA721535) at 1/1,000 dilution.

Lane 1: Huh7 cell lysate
Lane 2: HepG2 cell lysate
Lane 3: NCI-H441 cell lysate
Lane 4: Jurkat cell lysate
Lane 5: NIH/3T3 cell lysate
Lane 6: RAW264.7 cell lysate
Lane 7: PC-12 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 39 kDa
Observed band size: 50 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721535) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Background References

1. Angiari S., Donnarumma T., Rossi B., Dusi S., Pietronigro E., Zenaro E., Della Bianca V., Toffali L., Piacentino G., Budui S., Rennert P., Xiao S., Laudanna C., Casasnovas J.M., Kuchroo V.K., Constantin G. TIM-1 glycoprotein binds the adhesion receptor P-selectin and mediates T cell trafficking during inflammation and autoimmunity. Immunity 40:542-553 (2014)
2. van Timmeren M.M., van den Heuvel M.C., Bailly V., Bakker S.J., van Goor H., Stegeman C.A. Tubular kidney injury molecule-1 (KIM-1) in human renal disease. J. Pathol. 212:209-217 (2007)