Product datasheet

Anti-KIM-1/HAVCR1 Antibody

Catalog Number: *BA3536*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-KIM-1/HAVCR1 Antibody
Gene Name	HAVCR1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TIM 1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	39,50 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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.

Reference

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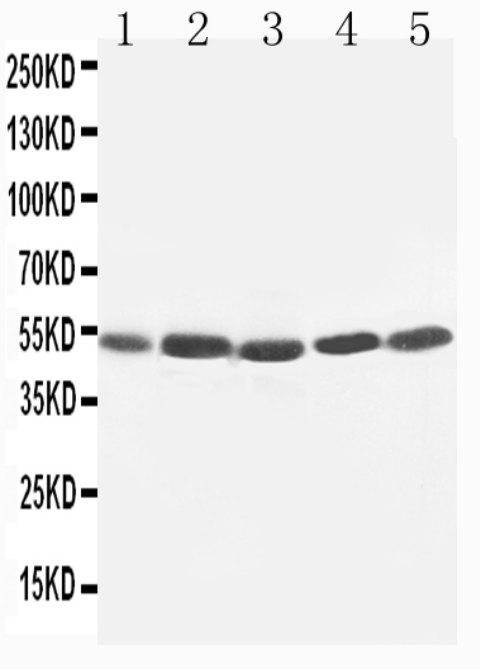
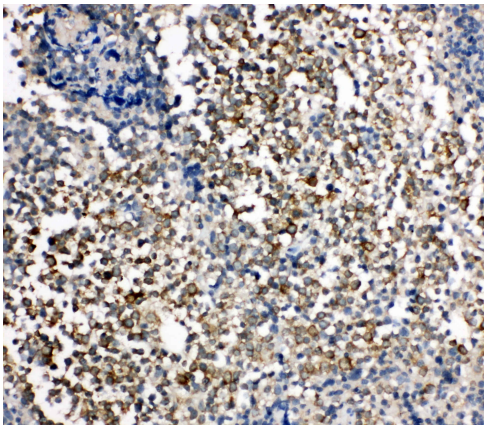
Anti-KIM-1/HAVCR1 Antibody被引用在4文献中。

Selected Validation Data



Western blot analysis of KIM-1/HAVCR1 using anti-KIM-1/HAVCR1 antibody (BA3536). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: SMMC whole cell lysates ,
Lane 2: HELA whole cell lysates,
Lane 3: PANC whole cell lysates,
Lane 4: M231 whole cell lysates,
Lane 5: M453 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-KIM-1/HAVCR1 antigen affinity purified polyclonal antibody (BA3536) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for KIM-1/HAVCR1 at approximately 39,50 kDa. The expected band size for KIM-1/HAVCR1 is at 39 kDa.



IHC analysis of KIM-1/HAVCR1 using anti-KIM-1/HAVCR1 antibody (BA3536).
KIM-1/HAVCR1 was detected in a paraffin-embedded section of human tonsil tissue. The tissue section was incubated with rabbit anti-KIM-1/HAVCR1 Antibody (BA3536) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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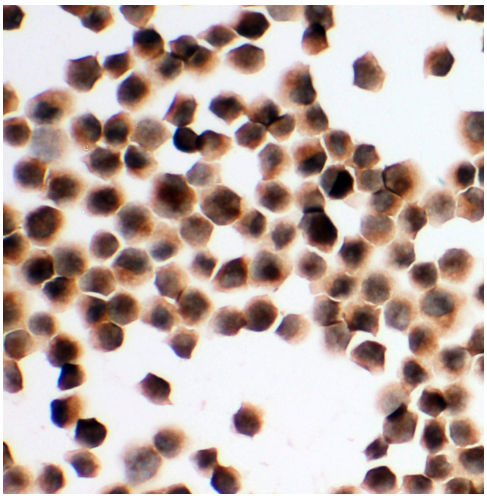

ICC analysis of KIM-1/HAVCR1 using anti- KIM-1/HAVCR1 antibody (BA3536).
KIM-1/HAVCR1 was detected in an immunocytochemical section of K562 cells. The section was incubated with rabbit anti-KIM-1/HAVCR1 Antibody (BA3536) at a dilution of 1:100. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.