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Anti-TIM 1/HAVCR1 Antibody Picoband™

Catalog Number: A01306

About HAVCR1

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 are 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.

Overview

Product Name	Anti-TIM 1/HAVCR1 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-TIM 1/HAVCR1 Antibody Picoband™ catalog # A01306. Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q96D42

Technical Details

Immunogen	E. coli-derived human TIM 1 recombinant protein (Position: Q58-K289).
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

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Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml ELISA (Cap), 1-5ug/ml

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Anti-TIM 1/HAVCR1 Antibody Picoband™ (A01306) Images

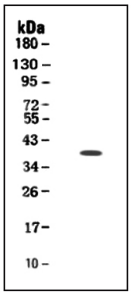

Figure 1. Western blot analysis of TIM 1 using anti-TIM 1 antibody (A01306).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.
Lane 1: recombinant human TIM1 protein 1ng.
After Electrophoresis, proteins were transferred to a Nitrocellulose 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-TIM 1 antigen affinity purified polyclonal antibody (Catalog # A01306) at 0.5 ug/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 TIM 1 at approximately 39KD.

2 Publications Citing This Product

1. PubMed ID: 32119183, Liu Y,Feng Q,Miao J,Wu Q,Zhou S,Shen W,Feng Y,Hou FF,Liu Y,Zhou L.C-X-C motif chemokine receptor 4 aggravates renal fibrosis through activating JAK/STAT/GSK3beta/beta-catenin pathway.J Cell Mol Med.2020 Apr;24(7):3837-3855.doi:10.1111/jcmm.14973.Epub 2020 Mar 2.PMID:32119183;PMCID:PMC7171406.

2. PubMed ID: 31938132, Tryptase and TIM-1 double-positive mast cells in different stages of human chronic periodontitis

Visit bosterbio.com/anti-tim-1-picoband-trade-antibody-a01306-boster.html to see all 2 publications.

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