BOSTER BIOLOGICAL TECHNOLOGY
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Anti-TIM-1 HAVCR1 Antibody

Catalog Number: A01306-1

About HAVCR1

The human form of TIM-1 was initially discovered as a membrane glycoprotein through which the hepatitis A virus can gain entry into a cell. It was also identified as kidney injury molecule 1 (Kim-1), a predicted adhesion molecule that is upregulated on the surfaces of kidney epithelia. It is also expressed on T helper 2 (Th2) cells of the immune system, and following the binding of its natural ligand TIM-4, stimulates T cell expansion and cytokine production in response to viral challenge. It has been suggested that hyperactivation of TIM-1 leads to an increased level of Th2 responsiveness and asthma susceptibility, and antibodies to TIM-1 may therefore be a novel approach to treating asthma.

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Overview

Product Name	Anti-TIM-1 HAVCR1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-TIM-1 HAVCR1 Antibody (Catalog # A01306-1). Tested in ELISA, WB, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, WB
Clonality	Polyclonal
Formulation	TIM-1 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	TIM-1 antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q96D42

Technical Details

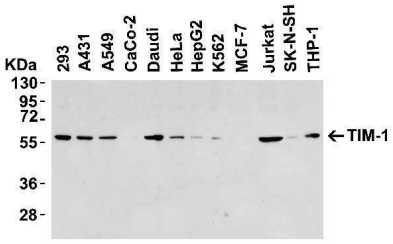
Immunogen	Anti-TIM-1 antibody was raised against a peptide corresponding to 16 amino acids near the amino terminus of human TIM-1. The immunogen is located within amino acids 50 - 100 of TIM-1.
Predicted Reactive Species	Rat
Isotype	IgG

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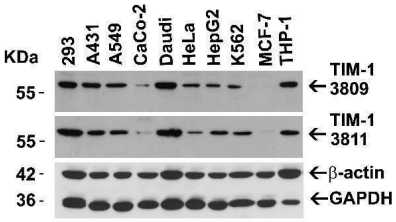
Form	Liquid
Concentration	1 mg/mL
Purification	TIM-1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 1 - 8 ug/mL (overnight incubation at 4˚ C) IHC-P/IF: 10-20 ug/mL. Antibody validated: Western Blot in human and mouse samples; Immunofluorescence in human and mouse samples. All other applications and species not yet tested.

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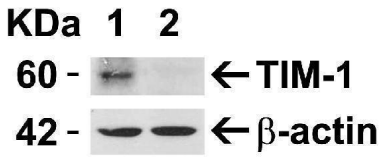
Anti-TIM-1 HAVCR1 Antibody (A01306-1) Images



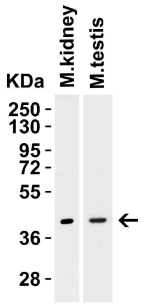
Western Blot Validation in Human Cell Lines Loading: 15 ug of lysates per lane. Antibodies: TIM-1 A01306-1 (8 ug/mL), overnight incubation at 4˚ C in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



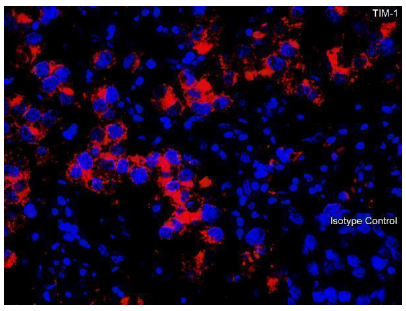
Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines Loading: 15 ug of lysates per lane. Antibodies: TIM-1 A01306-1 (8 ug/mL), TIM-1 3811 (1 ug/mL), beta-actin (1 ug/mL), and GAPDH (0.02 ug/mL), overnight incubation at 4˚ C (A01306-1) or 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Validation with TIM-1 siRNA Knockdown in Hela Cells HeLa cells were transfected with control siRNAs (lane 1) or TIM-1 siRNAs (lane 2) Loading: 15 ug of HeLa whole cell lysates per lane. Antibodies: A01306-1 (8 ug/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



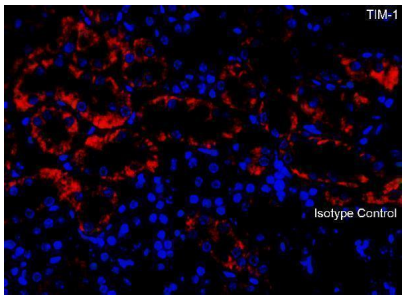
Western Blot Validation in Mouse Tissues Loading: 15 ug of lysates. Antibodies: TIM-1 A01306-1, 2 u g/mL, 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of TIM-1 in Human Testis Immunofluorescent analysis of 4% paraformaldehyde-fixed human testis tissue labeling TIM-1 with A01306-1 at 10 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

Immunofluorescence Validation of TIM-1 in Mouse Kidney Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse kidney tissue labeling TIM-1 with A01306-1 at 10 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

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2 Publications Citing This Product

1. PubMed ID: -, Songsong Wang,Xiao Xiao,Ao Li,Peng Li,"The Herbal Constituents in An-Gong-Niu-Huang Wan (AGNH) Protect against Cinnabar- and Realgar-Induced Hepatorenal Toxicity and Accumulations of Mercury and Arsenic in Mice",Evidence-Based Complementary and Alternative Medicine,vol.2021,Article ID 5566078,9 pages,2021.https://doi.org/10.1155/2021/5566078

2. PubMed ID: 32934963, Zhang R,Ji J,Zhou X,Li R.Irisin Pretreatment Protects Kidneys against Acute Kidney Injury Induced by Ischemia/Reperfusion via Upregulating the Expression of Uncoupling Protein 2. Biomed Res Int.2020 Aug 31;2020:6537371.doi:10.1155/2020/6537371.PMID:329349

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