Product Datasheet

TIM-1/KIM-1/HAVCR Antibody - BSA Free
NB100-56421

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 3

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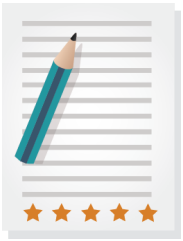
Updated 2/21/2025 v.20.1



NB100-56421

TIM-1/KIM-1/HAVCR Antibody - BSA Free

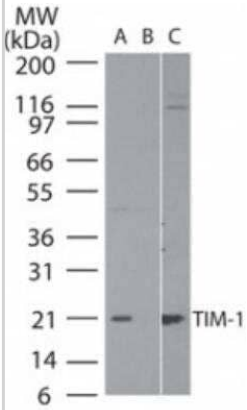
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	26762
Gene Symbol	HAVCR1
Species	Human, Mouse
Reactivity Notes	Predicted to react with New World Monkey.
Specificity/Sensitivity	Isoforms of different molecular weights have been described for TIM-1. The sequence used for immunogen is conserved between TIM-1 (364aa, NP_036338) and TIM-1 isoform CRA_a (194aa, EAW61615.1). Therefore, the molecular weight observed in western blots may vary depending on the forms present.
Immunogen	A synthetic peptide (SPLYSYTTDGNDTVT) of human TIM-1 protein was used as immunogen for this antibody. This sequence corresponds to amino acids (aa) 248-262 of NP_036338 and aa 84-98 of EAW61615.1. Isoforms of TIM-1 have been described. For example, NP_036338 is 364 aa and EAW61615.1 is 194 aa. EAW61615.1 is referred to as isoform CRA_a.

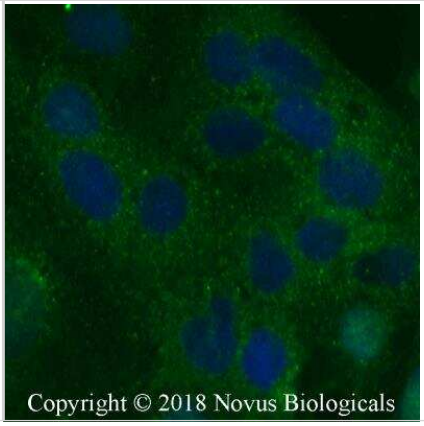
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1-3 ug/ml, Immunocytochemistry/ Immunofluorescence

Images

Western Blot: TIM-1/KIM-1/HAVCR Antibody [NB100-56421] - Analysis of TIM-1/KIM-1/HAVCR in human brain lysate in the A) absence and B) presence of immunizing peptide, and C) mouse brain lysate using TIM-1 antibody at 2 ug/ml.



Immunocytochemistry/Immunofluorescence: TIM-1/KIM-1/HAVCR Antibody [NB100-56421] - Caco-2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-TIM-1/KIM-1/HAVCR Antibody at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Publications

Yang CC, Sung PH, Chen CH Et al. Additional benefit of induced pluripotent stem cell-derived mesenchymal stem cell therapy on sepsis syndrome-associated acute kidney injury in rat treated with antibiotic Stem cell research & therapy 2021-10-07 [PMID: 34620235] (IHC-P, Rat)

Xu G, Cheng L, Wen W et al. Inverse association between T-cell immunoglobulin and mucin domain-1 and T-bet in a mouse model of allergic rhinitis. Laryngoscope. 2007-06-01 [PMID: 17460580] (WB, Mouse)

Details:
WB (mouse spleen tissue), Figs. 6, 7.

Xu G, Cheng L, Lu L et al. Expression of T-cell immunoglobulin- and mucin-domain-containing molecule-1 (TIM-1) is increased in a mouse model of asthma and relationship to GATA-3. Life Sci. 2008-03-12 [PMID: 18234236] (WB, Mouse)

Details:
WB (mouse spleen tissue), Figs. 6, 7.

Procedures

Western Blot Protocol for TIM-1/KIM-1/HAVCR Antibody (NB100-56421)
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

Immunocytochemistry/Immunofluorescence Protocol for TIM-1/KIM-1/HAVCR Antibody (NB100-56421)
Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
2. Remove the formalin and wash the cells in PBS.
3. Permeablize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
4. Remove the permeablization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
10. Counter stain DNA with DAPi if required.

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Products Related to NB100-56421

NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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