Product Datasheet

ASC/TMS1 Antibody - BSA Free NBP1-78977

Unit Size: 0.1 ml

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



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NBP1-78977

ASC/TMS1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
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	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Product Description	
Host	Rabbit
Gene ID	29108
Gene Symbol	PYCARD
Species	Human, Mouse, Rat
Reactivity Notes	Reactivity with Rat reported in PMID 24464748
Immunogen	This ASC/TMS1 Antibody was developed against a synthetic peptide made to an N-terminal portion of the human ASC/TMS1 protein (between residues 1-50) [Uniprot: Q9ULZ3]
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunomicroscopy, Immunoprecipitation
Recommended Dilutions	Western Blot 2.0 - 4.0 ug/ml, Simple Western 1:1000, Flow Cytometry 1 - 2 ug/ml. Use reported in scientific literature (PMID 31214205), Immunohistochemistry 1:400, Immunocytochemistry/Immunofluorescence 1:40- 1:100, Immunoprecipitation reported in scientific literature (PMID 31551961), Immunohistochemistry-Paraffin 1:400, Immunomicroscopy reported in scientific literature (PMID 31054188), Flow (Intracellular) 1 - 2 ug/ml. Use reported in scientific literature (PMID 35095880)
Application Notes	Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.









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Publications

Quan JH, Gao FF, Ma TZ et al. Toxoplasma gondii induces pyroptosis in human placental trophoblast and amniotic cells by inducing ROS production and activation of cathepsin B and NLRP1/NLRP3/NLRC4/AIM2 inflammasome The American journal of pathology 2023-09-21 [PMID: 37741453] (Mouse, IHC-P)

Zhang C, Wang X, Wang C et al. Qingwenzhike Prescription Alleviates Acute Lung Injury Induced by LPS via Inhibiting TLR4/NF-kB Pathway and NLRP3 Inflammasome Activation Frontiers in Pharmacology 2021-12-23 [PMID: 35002723] (WB, ELISA)

Zhang ZY, Dang SP, Li SS et al. Glucose Fluctuations Aggravate Myocardial Fibrosis via the Nuclear Factor-?B-Mediated Nucleotide-Binding Oligomerization Domain-Like Receptor Protein 3 Inflammasome Activation Frontiers in Cardiovascular Medicine 2022-05-03 [PMID: 35592403] (WB, B/N)

Kariya S, Okano M, Zhao P et al. Role of Macrophage Migration Inhibitory Factor in NLRP3 Inflammasome Expression in Otitis Media Otology & Neurotology 2020-03-01 [PMID: 31821259] (IHC)

Chen XC, Wu D, Wu HL et al. Metformin improves renal injury of MRL/lpr lupus-prone mice via the AMPK/STAT3 pathway Lupus Science & Medicine 2022-04-11 [PMID: 35414608] (In Vivo)

Li F, Wang C, Wang J et al. Resveratrol Attenuates Exercise-induced Acute Kidney Injury by Inhibiting NLRP3 Inflammasome-mediated Renal Tubular Pyroptosis Research Square 2023-07-24 (ICC/IF, WB, Rat)

Ning J, Pei Z, Wang M et al. Site-specific Atg13 methylation-mediated autophagy regulates epithelial inflammation in PM2.5-induced pulmonary fibrosis Journal of hazardous materials 2023-09-05 [PMID: 37295326]

Jing X, Luo X, Fang C, Zhang B N-acetylserotonin inhibits oxidized mitochondrial DNA-induced neuroinflammation by activating the AMPK/PGC-1?/TFAM pathway in neonatal hypoxic-ischemic brain injury model International Immunopharmacology 2023-03-01 (WB, Rat)

Gratuze M, Schlachetzki JCM, D'Oliveira Albanus R et al. TREM2-independent microgliosis promotes tau-mediated neurodegeneration in the presence of ApoE4 Neuron 2022-11-04 [PMID: 36368315] (WB, Mouse)

Details:

Dilution used in WB 1:1000

Li T, Li L, Peng R et al. Abrocitinib Attenuates Microglia-Mediated Neuroinflammation after Traumatic Brain Injury via Inhibiting the JAK1/STAT1/NF-κB Pathway Cells 2022-11-13 [PMID: 36429017] (WB, Mouse)

Zheng J, Pang Y, Zhang Y et al. Indoor VOCs exposure induced Parkinson-like behaviors through autophagy dysfunction and NLRP3 inflammasome-mediated neuroinflammation Journal of Hazardous Materials 2022-10-01 (ICC/IF, WB, Mouse)

Details:

ICC/IF Dilutions: 1:200; WB Dilutions: 1:1000

Ferrara F, Cordone V, Pecorelli A et al. Ubiquitination as a key regulatory mechanism for O3-induced cutaneous redox inflammasome activation Redox biology 2022-08-21 [PMID: 36027676] (ICC/IF, WB, Human)

Details:

ICC/IF Dilutions: 1:100; WB Dilutions: 1:1000

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Procedures

Immunohistochemistry-Paraffin Embedded Sections protocol specific for TMS1 antibody (NBP1-78977) [[URL:https://www.novusbio.com/products/asc-tms1-antibody_nbp1-78977]][[Caption:TMS1 antibody]] Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

- 1. Wash sections in deionized water three times for 5 minutes each.
- 2. Wash sections in wash buffer for 5 minutes.
- 3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
- 4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
- 5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
- 6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
- 7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
- 8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
- 9. Wash sections three times in wash buffer for 5 minutes each.
- 10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
- 11. As soon as the sections develop, immerse slides in deionized water.
- 12. Counterstain sections in hematoxylin.
- 13. Wash sections in deionized water two times for 5 minutes each.
- 14. Dehydrate sections.
- 15. Mount coverslips.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

Immunocytochemistry/Immunofluorescence protocol for ASC/TMS1 Antibody (NBP1-78977) [[URL:https://www.novusbio.com/products/asc-tms1-antibody_nbp1-78977]][[Caption:ASC/TMS1 Antibody]] Immunocytochemistry Protocol

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

- 1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
- 2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.

3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.

4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.

5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.

6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.

7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.

8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,0000 and incubate for 10 minutes. Wash a third time for 10 minutes.

9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

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Products Related to NBP1-78977

NBP1-78977AF647	ASC/TMS1 Antibody [Alexa Fluor® 647]
NBP2-24891	Rabbit IgG Isotype Control
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]

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