

# Product Datasheet

## TRIF/TICAM1 Antibody - BSA Free NB120-13810

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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Updated 4/15/2024 v.20.1

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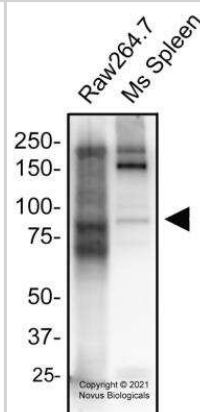
**NB120-13810**

TRIF/TICAM1 Antibody - BSA Free

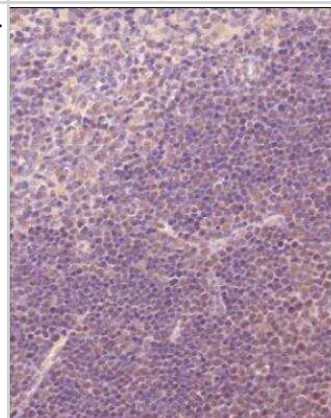
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	76 kDa
Product Description	
Host	Rabbit
Gene Symbol	TICAM1
Species	Mouse, Rat, Porcine
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 23447644). Porcine reactivity reported in scientific literature (PMID: 27046485).
Immunogen	Synthetic peptide made to an internal portion of the mouse TRIF protein (between amino acids 100-180) [UniProt Q80UF7].
Product Application Details	
Applications	Western Blot, Simple Western, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Simple Western 1:100, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:10-1:100, Immunoprecipitation reported in scientific literature (PMID 28007523), Immunohistochemistry-Paraffin 1:200, Immunoblotting reported in scientific literature (PMID 27043414), Knockdown Validated
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

## Images

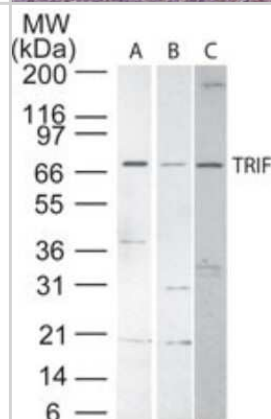
Western Blot: TRIF/TICAM1 Antibody [NB120-13810] - Total protein from Raw264.7 cells and mouse spleen was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-TICAM1 (NB120-13810) in blocking buffer and detected with an anti-rabbit HRP secondary antibody using NovaLume chemiluminescence detection reagent (NBP2-61915).



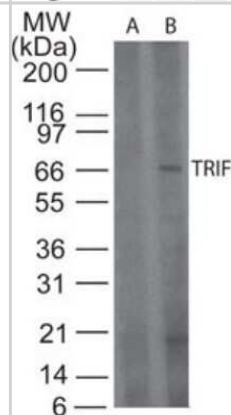
Immunohistochemistry-Paraffin: TRIF/TICAM1 Antibody [NB120-13810] - Analysis of a FFPE tissue section of mouse spleen using 1:200 dilution of TRIF/TICAM1 antibody. The staining was developed using HRP labeled anti-rabbit secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin.



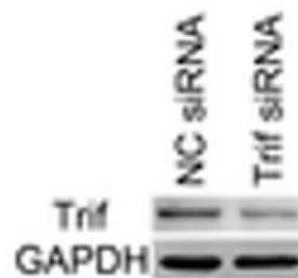
Western Blot: TRIF/TICAM1 Antibody [NB120-13810] - Analysis of TRIF in mouse A: Intestine. B: Spleen. C: RAW lysate using TRIF antibody at 1:1000 dilution.



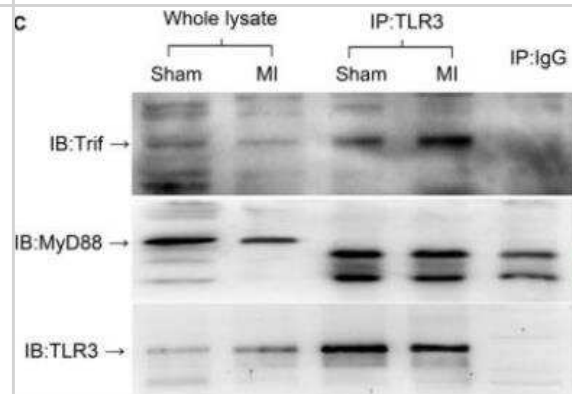
Western Blot: TRIF/TICAM1 Antibody [NB120-13810] - Analysis of TRIF in mouse spleen probed with TRIF antibody, in A: presence and B: absence of immunizing peptide, at 1:1000.



Knockdown Validated: TRIF/TICAM1 Antibody [NB120-13810] - siRNA was transfected at 50 nM for 48 hrs, and poly(I:C) was added at 100 ug/ml for 4 hrs before cell harvest. Negative control (NC) siRNA served as control. RNAiMAX transfection reagent was used in all the siRNA experiments. The panel shows the knockdown effect of Trif siRNA. Image collected and cropped by CiteAb from the following publication (<https://onlinelibrary.wiley.com/doi/full/10.1111/jcmm.13328>) licensed under a CC-BY license.



TRIF/TICAM1 Antibody [NB120-13810] - Lysates of heart tissue were immunoprecipitated with anti-TLR3 antibodies (IP: TLR3), followed by SDS-PAGE and immunoblotting (IB) with indicated antibodies. IP with isotype IgG (IP: IgG) was performed as a control to exclude the non-specific binding of antibodies to cellular proteins. Green arrows indicate non-specific bands. The association between TLR3 and Trif, but not MyD88, was detectable in sham myocardium and was increased in infarct. Image collected and cropped by CiteAb from the following publication (<https://onlinelibrary.wiley.com/doi/full/10.1111/jcmm.13328>) licensed under a CC-BY license. Anti-TLR3 antibody by WB (NB100-56571)



## Publications

Vogt A, Scull MA, Friling T et al. Recapitulation of the hepatitis C virus life-cycle in engineered murine cell lines *Virology* 2013-09-01 [PMID: 23777661] (B/N, WB)

Ning F, Li X, Yu L et al. Hes1 attenuates type I IFN responses via VEGF-C and WDFY1 *Journal of Experimental Medicine* 2019-06-03 [PMID: 31015298] (IP, WB, B/N)

Youn SE, Jiang F, Won HY et al. PAUF Induces Migration of Human Pancreatic Cancer Cells Exclusively via the TLR4/MyD88/NF-kappa B Signaling Pathway *International journal of molecular sciences* 2022-09-27 [PMID: 36232715] (IP, Human)

Karmakar J, Mandal C Interplay Between Sialic Acids, Siglec-E, and Neu1 Regulates MyD88- and TRIF-Dependent Pathways for TLR4-Activation During *Leishmania donovani* Infection *Frontiers in immunology* 2021-03-03 [PMID: 33763070] (WB, Mouse)

Chen YL, Shirakawa H, Lu NS et al. Impacts of fish oil on the gut microbiota of rats with alcoholic liver damage *J. Nutr. Biochem.* 2020-09-10 [PMID: 32920090] (WB, Rat)

Shi D, Chen M, Liu L et al. Anti-influenza A virus mechanism of three representative compounds from *Flos Trollii* via TLRs signaling pathways *J Ethnopharmacol* 2020-01-28 [PMID: 32004628] (WB, Mouse)

Feng Z, Yang R, Wu L et al. *Atractylodes macrocephala* polysaccharides regulate the innate immunity of colorectal cancer cells by modulating the TLR4 signaling pathway *Onco Targets Ther* [PMID: 31564895] (Mouse)

Zhou S, Qi Q, Wang X, et al. S $\beta$ HSP60 induces CD4<sup>+</sup> CD25<sup>+</sup> Foxp3<sup>+</sup> Tregs via TLR4-Mal-driven production of TGF- $\beta$  in macrophages. *Immunol Cell Biol.* 2018-05-21 [PMID: 29697865] (WB, Mouse)

Gao T, Zhang SP, Wang JF et al. TLR3 contributes to persistent autophagy and heart failure in mice after myocardial infarction *J. Cell. Mol. Med.* 2017-09-25 [PMID: 28945004] (WB, Mouse)

Popiolek-Barczyk K, Piotrowska A, Makuch W, Mika J. Biphalin, a Dimeric Enkephalin, Alleviates LPS-Induced Activation in Rat Primary Microglial Cultures in Opioid Receptor-Dependent and Receptor-Independent Manners.. *Neural Plast.* 2017-06-02 [PMID: 28573049] (WB, Rat)

Kim E, Beon J, Lee S et al. Inositol polyphosphate multikinase promotes Toll-like receptor-induced inflammation by stabilizing TRAF6. *Sci Adv.* 2017-04-01 [PMID: 28439546] (IP, Mouse)

Wang F, Alain T, Szretter KJ et al. S6K-STING interaction regulates cytosolic DNA-mediated activation of the transcription factor IRF3. *Nat. Immunol.* 2016-05-01 [PMID: 27043414] (IB, IP, Mouse)

More publications at <http://www.novusbio.com/NB120-13810>



## Procedures

### Immunohistochemistry-Paraffin Protocol for TRIF/TICAM1 Antibody (NB120-13810)

#### 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 (keep slides in the sodium citrate buffer all the time).

##### Staining:

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





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### **Products Related to NB120-13810**

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NB820-59670	Mouse Spleen 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

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### **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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