

Product Datasheet

TRNT1 Antibody - BSA Free NBP1-86589

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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NBP1-86589

TRNT1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
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	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	50 kDa

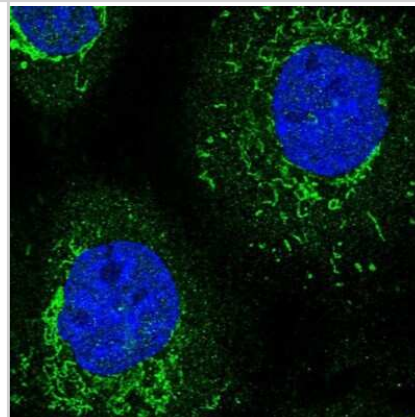
Product Description	
Description	Novus Biologicals Rabbit TRNT1 Antibody - BSA Free (NBP1-86589) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-TRNT1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	51095
Gene Symbol	TRNT1
Species	Human, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LDLRLKIAKEEKNLGLFIVKNRKDLIKATDSSDPLKPYQDFIIDSREPDATTRVCE LLKYQGEHCLLKEMQQWSIPFPVSGHDIR

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Simple Western, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500, Knockdown Validated
Application Notes	IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100. See Simple Western Antibody Database for Simple Western validation: Tested in RT-4 and U-251MG; separated by size; antibody dilution of 1:8.

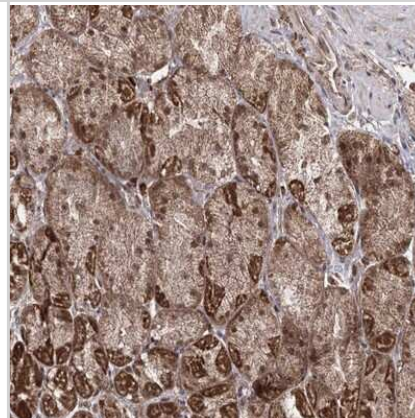


Images

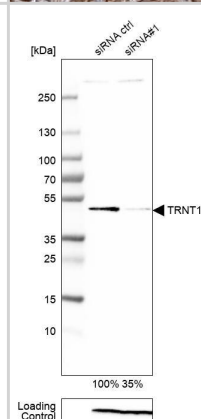
Immunocytochemistry/Immunofluorescence: TRNT1 Antibody [NBP1-86589] - Staining of human cell line A-431 shows positivity in mitochondria. Antibody staining is shown in green.



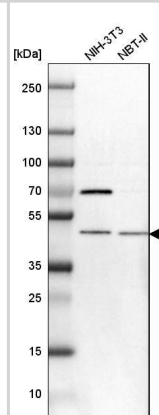
Immunohistochemistry-Paraffin: TRNT1 Antibody [NBP1-86589] - Staining of human stomach shows moderate cytoplasmic and nuclear positivity in glandular cells.



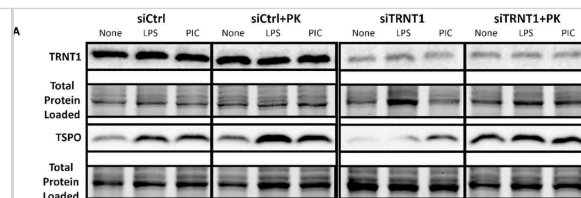
Analysis in A-549 cells transfected with control siRNA, target specific siRNA probe #1, using Anti-TRNT1 antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



PK11195 may boost TSPO expression but cannot restore siTRNT1-mediated reduction in inflammatory cytokine production. To examine the role of TSPO in macrophage inflammatory responses, RAW264.7 cells were transfected with siCtrl (siC) or siTRNT1 (siT) for 2 days before co-treatment with 10nM PK11195 and either LPS or Poly (I:C). TRNT1 and TSPO protein levels in each condition were assessed via immunoblotting, with the representative blot shown on the top and quantified data on the bottom (A). All siC and siT samples shown were loaded onto separate Stain-Free gels and presented and cropped as one image. The band intensity was normalized to the total protein levels in each of their respective lanes within their respective gel using the Bio-Rad Stain-Free Application. Inflammatory cytokine expression (IL-1 β (B), IL-6 (C), TNF (D), IFN- β (E)) was evaluated via ELISA. mPTP activity was assessed using the Image-IT™ LIVE Mitochondrial Transition Pore Assay Kit (F). Data represents mean +/- SEM of five individual experiments (*p < 0.05, **p < 0.01, and ***p < 0.001). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/41019077>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Akiyama Y, Lyons SM, Fay MM et al. Selective Cleavage at CCA Ends and Anticodon Loops of tRNAs by Stress-Induced RNases *Frontiers in Molecular Biosciences* 2022-03-01 [PMID: 35300117]

Seki M, Komuro A, Ishikawa T et al. Genes for tRNA recycling are upregulated in response to infection with Theiler's mouse encephalitis virus *Biochemical and biophysical research communications* 2022-01-08 [PMID: 34864548] (WB, Human)

Shao S ELAC1 Repairs tRNAs Cleaved during Ribosome-Associated Quality Control *Cell Rep* 2020-02-18 [PMID: 32075755] (SDS-Page, Human)

Akiyama Y, Lyons SM, Fay MM et al. Multiple ribonuclease A family members cleave transfer RNAs in response to stress *bioRxiv* 2019-10-21 (KD, WB, Human)

Yip, MCJ;Keszei, AFA;Feng, Q;Chu, V;McKenna, MJ;Shao, S; Mechanism for recycling tRNAs on stalled ribosomes *Nat. Struct. Mol. Biol.* 2019-04-22 [PMID: 31011209] (WB, Human)

DeLuca AP, Whitmore SS, Barnes J et al. Hypomorphic mutations in TRNT1 cause retinitis pigmentosa with erythrocytic microcytosis. *Hum Mol Genet* 2016-01-01 [PMID: 26494905] (WB)

Stadler C, Rexhepaj E, Singan VR et al. Immunofluorescence and fluorescent-protein tagging show high correlation for protein localization in mammalian cells. *Nat Methods* 2013-04-01 [PMID: 23435261]



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Products Related to NBP1-86589

NBP1-86589PEP	TRNT1 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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