Product Datasheet

Transglutaminase 1/TGM1 Antibody - BSA Free
NBP2-34062

Unit Size: 0.1 ml

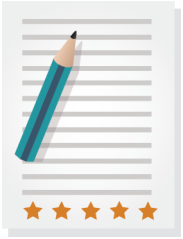
Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-34062

Updated 12/2/2025 v.20.1



NBP2-34062

Transglutaminase 1/TGM1 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

Product Description

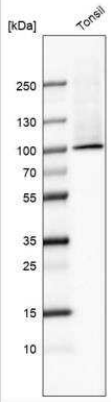
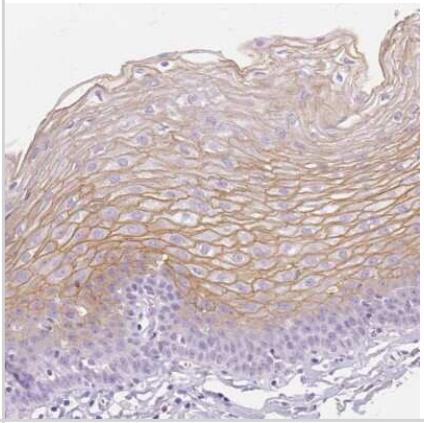
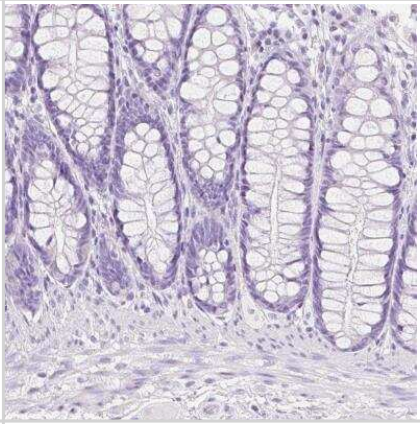
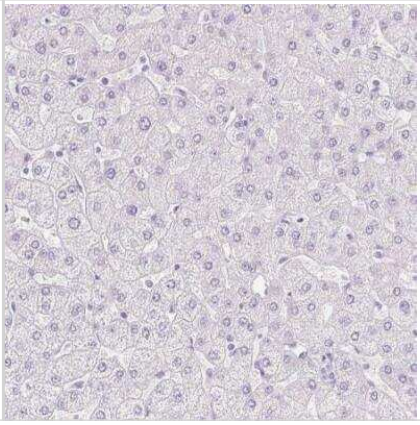
Description	Novus Biologicals Rabbit Transglutaminase 1/TGM1 Antibody - BSA Free (NBP2-34062) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Transglutaminase 1/TGM1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7051
Gene Symbol	TGM1
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to amino acids: MMDGPRSDVGRWGGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGC CSCRNAADDDWGPEPSDSRGRGSSSGTRRPGSRGSDSRRPVSRGSGVNAA

Product Application Details

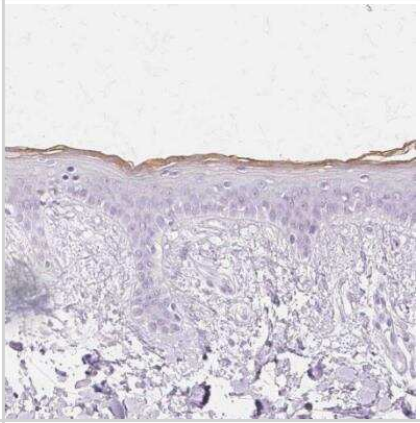
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunohistochemistry-Paraffin 1:2500 - 1:5000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

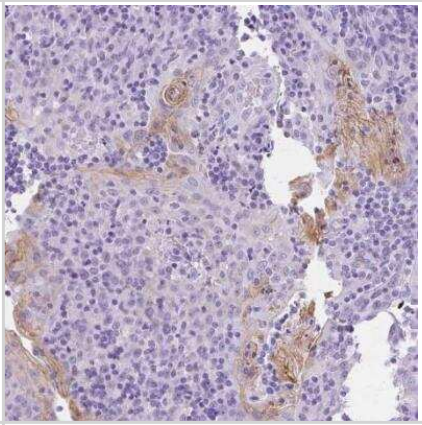
Immunohistochemistry-Paraffin: Transglutaminase 1/TGM1 Antibody [NBP2-34062] - Analysis in human esophagus and liver tissues using NBP2-34062 antibody. Corresponding TGM1 RNA-seq data are presented for the same tissues.

Western Blot: Transglutaminase 1/TGM1 Antibody [NBP2-34062] - Analysis in human tonsil tissue.	
Immunohistochemistry-Paraffin: Transglutaminase 1/TGM1 Antibody [NBP2-34062] - Staining of human esophagus shows high expression.	
Immunohistochemistry-Paraffin: Transglutaminase 1/TGM1 Antibody [NBP2-34062] - Staining of human colon shows no positivity in glandular cells.	
Immunohistochemistry-Paraffin: Transglutaminase 1/TGM1 Antibody [NBP2-34062] - Staining of human liver shows no positivity in hepatocytes as expected.	

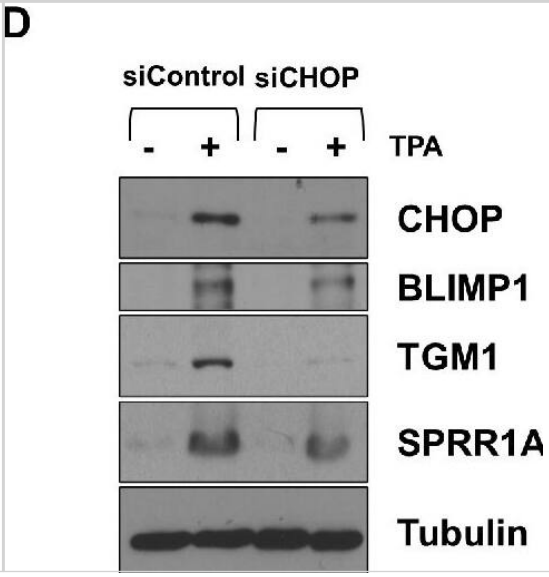
Immunohistochemistry-Paraffin: Transglutaminase 1/TGM1 Antibody [NBP2-34062] - Staining of human skin shows moderate membranous positivity in squamous epithelial cells.



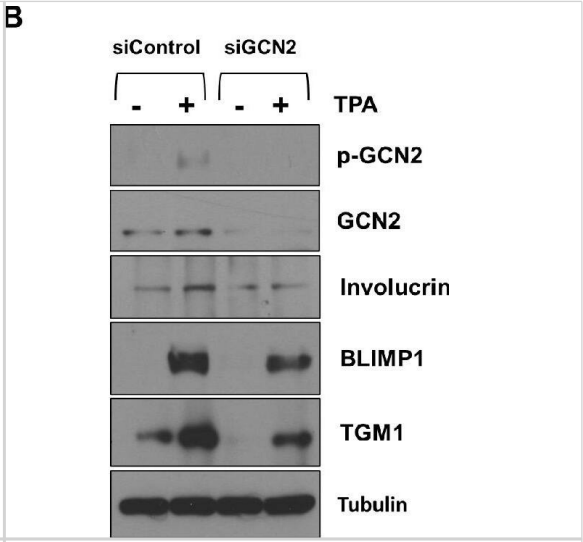
Immunohistochemistry-Paraffin: Transglutaminase 1/TGM1 Antibody [NBP2-34062] - Staining of human tonsil shows moderate membranous positivity in sqamous epithelial cells.



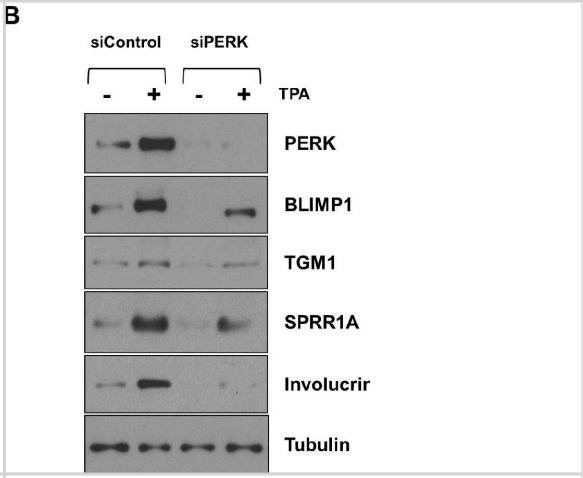
ATF4 and CHOP are required for efficient TPA-induced lytic EBV reactivation and differentiation in WT EBV-infected NOKs.WT EBV-infected NOKs cells were transfected with control siRNA or siRNAs against ATF4 (A and C) or CHOP (B and D) as indicated, and then treated with TPA for 24 hours starting one day after siRNA transfection. (A and B) Immunoblot analyses were performed to examine the effect of ATF4 and CHOP knock-down on lytic EBV proteins BZLF1, BRLF1, BMRF1 and p18 VCA as indicated. (C and D) Immunoblot analyses were performed to examine the effect of ATF4 and CHOP knock-down on TPA-induced differentiation markers BLIMP1, TGM1, and SPRR1A as indicated. Tubulin served as a loading control. The cellular extracts used in (A) and (C) or (B) and (D) were the same. The same ATF4 and Tubulin blots were used in (A) and (C), and the same CHOP and Tubulin blots were used for (B) and (D). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/39951426), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



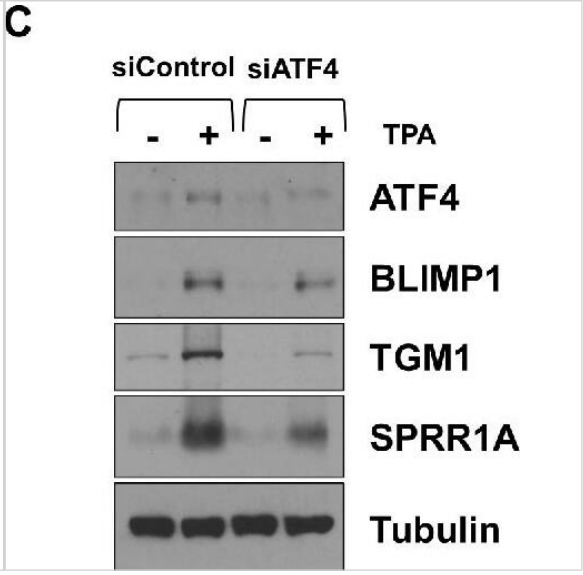
GCN2 is required for TPA-induced lytic EBV reactivation and differentiation in WT EBV-infected NOKs.WT EBV-infected NOKs cells were transfected with control siRNA or siRNAs against GCN2 as indicated, and then treated with TPA for 24 hours starting one day after siRNA transfection. (A) Immunoblot analysis was performed to examine the effect of GCN2 knock-down on proteins involved in the ISR pathway (including p-GCN2, GCN2, p-eIF2α, eiF2α, ATF4, and CHOP) and EBV lytic proteins (BZLF1, BRLF1, BMRF1, and p18 VCA). (B) Immunoblot analyses were performed to examine the effect of GCN2 knock-down on differentiation-induced cellular proteins Involucrin, BLIMP1, and TGM1. Tubulin served as a loading control for both panels. The same extracts were used for each panel, and the same GCN2, p-GCN2, and Tubulin blots were used for both panels. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/39951426), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



PERK is also required for efficient TPA-induced lytic EBV reactivation and differentiation in WT EBV-infected NOKs.WT EBV-infected NOKs cells were transfected with control siRNA or siRNAs against PERK as indicated, and then treated with TPA for 24 hours starting one day after siRNA transfection. (A) Immunoblot analyses were performed to examine the effect of PERK knock-down on EBV lytic proteins BZLF1, BRLF1, and BMRF1. (B) Immunoblot analyses were performed to examine the effect of PERK knock-down on differentiation-induced cellular proteins BLIMP1, TGM1, Involucrin and SPRR1A. Tubulin served as a loading control for both panels. The same extracts were used for both panels, and the same PERK and Tubulin blots were used for both panels. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/39951426), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



ATF4 and CHOP are required for efficient TPA-induced lytic EBV reactivation and differentiation in WT EBV-infected NOKs.WT EBV-infected NOKs cells were transfected with control siRNA or siRNAs against ATF4 (A and C) or CHOP (B and D) as indicated, and then treated with TPA for 24 hours starting one day after siRNA transfection. (A and B) Immunoblot analyses were performed to examine the effect of ATF4 and CHOP knock-down on lytic EBV proteins BZLF1, BRLF1, BMRF1 and p18 VCA as indicated. (C and D) Immunoblot analyses were performed to examine the effect of ATF4 and CHOP knock-down on TPA-induced differentiation markers BLIMP1, TGM1, and SPRR1A as indicated. Tubulin served as a loading control. The cellular extracts used in (A) and (C) or (B) and (D) were the same. The same ATF4 and Tubulin blots were used in (A) and (C), and the same CHOP and Tubulin blots were used for (B) and (D). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/39951426), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Eleftheria Girousi, Lukas Muerner, Ludovica Parisi, Silvia Rihs, Stephan von Gunten, Christos Katsaros, Martin Degen Lack of IRF6 Disrupts Human Epithelial Homeostasis by Altering Colony Morphology, Migration Pattern, and Differentiation Potential of Keratinocytes Frontiers in Cell and Developmental Biology 2021-09-30 [PMID: 34660580]

Parisi L, Mockenhaupt C, Rihs S et al. Consistent downregulation of the cleft lip/palate-associated genes IRF6 and GRHL3 in carcinomas Frontiers in oncology 2022-11-15 [PMID: 36457487] (ICC/IF, Human)

Salameh S, Tissot N, Cache K et al. A perfusable vascularized full-thickness skin model for potential topical and systemic applications Biofabrication 2021-07-01 [PMID: 33910175]

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NBP2-34062PEP	Transglutaminase 1/TGM1 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

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