

Product Datasheet

Transglutaminase 2/TGM2 Antibody NBP2-24470

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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NBP2-24470**Transglutaminase 2/TGM2 Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	1 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

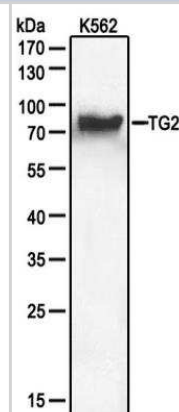
Product Description	
Description	Novus Biologicals Rabbit Transglutaminase 2/TGM2 Antibody (NBP2-24470) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-Transglutaminase 2/TGM2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7052
Gene Symbol	TGM2
Species	Human
Immunogen	A portion of amino acids 600-650 of human Transglutaminase 2 was used as the immunogen.

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 2-5 ug/ml, Simple Western 1:50, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in MCF-7 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 76 kDa.



Images

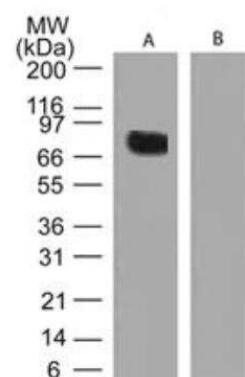
Western Blot: Transglutaminase 2/TGM2 Antibody [NBP2-24470] - Analysis of extracts from K562 cells using Transglutaminase 2 antibody at 1:100.



Immunohistochemistry-Paraffin: Transglutaminase 2/TGM2 Antibody [NBP2-24470] - Analysis of a FFPE tissue section of human liver using 1:200 dilution of Transglutaminase 2/TGM2 antibody (NBP2-24470). 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: Transglutaminase 2/TGM2 Antibody [NBP2-24470] - Analysis of Transglutaminase 2 in A) BxPC-3 cell lysate using NBP2-24470 at 2.0 ug/ml and B) MCF-7 negative control cell lysate.



Simple Western: Transglutaminase 2/TGM2 Antibody [NBP2-24470] - Simple Western lane view shows a specific band for Transglutaminase 2/TGM2 in 0.5 mg/ml of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Anjali A. Satoskar, John P. Shapiro, Mikayla Jones, Cherri Bott, Samir V. Parikh, Sergey V. Brodsky, Lianbo Yu, Haikady N. Nagaraja, Daniel W. Wilkey, Michael L. Merchant, Jon B. Klein, Tibor Nadasdy, Brad H. Rovin
Differentiating Staphylococcus infection-associated glomerulonephritis and primary IgA nephropathy: a mass spectrometry-based exploratory study Scientific Reports 2020-10-14 [PMID: 33057112]



Procedures

Western Blot Protocol for Transglutaminase 2/TGM2 Antibody (NBP2-24470)

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 manufacturer's instructions.

Immunohistochemistry-Paraffin protocol for Transglutaminase 2/TGM2 Antibody (NBP2-24470)

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 at all times).

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 NBP2-24470

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-52009-0.05mg	Recombinant Human Transglutaminase 2/TGM2 His Protein

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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