

# Product Datasheet

## TRPM7 Antibody NB500-243

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**NB500-243****TRPM7 Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	54822
<b>Gene Symbol</b>	TRPM7
<b>Species</b>	Human, Mouse (Negative)
<b>Reactivity Notes</b>	It does not work on endogenous samples tested for western analysis (human, rat and mouse cell lines).
<b>Immunogen</b>	A synthetic peptide made to the C-terminal region of rat TRPM7. [UniProt# Q925B3]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunoprecipitation 5 ul
<b>Application Notes</b>	This TRPM7 antibody is useful for Western blot on immunoprecipitated samples only, does not work on endogenous samples tested to date. The investigator should determine the optimal working dilution.



## Procedures

### Immunoprecipitation and Western Blotting protocol specific for TRPM7 Antibody (NB500-243)

TRPM7 Antibody:

Immunoprecipitation and Western Blotting Procedure

[Buffer recipes to follow protocol]

1. Prepare fresh 1X Lysis buffer (pH 7.4): Need 0.35 ml/pt. + 3 ml/pt.
2. Collect cells by washing them down, trypsinizing or scraping them (as appropriate).
3. Pellet 5 minutes at 1K rpm
4. Remove media.
5. Break pellet by gently tapping it.
6. Wash with X ml cold 1X PBS (pipet up/down once). (X = # of pts. (lanes) to be derived from the cell line.)
7. Aliquot cells 1ml/microfuge tube.
8. Spin cells for 30 seconds at 12K rpm then place on ice.
9. Aspirate off the supernatant.
10. Lyse cells with 0.35 ml 1X Lysis buffer (added to each tube).
11. Pipet up/down 3-4X to completely resuspend the cells. (\*\*Do not vortex)
12. Incubate for 30 minutes at 4C, on rotator.
13. Pellet unlysed nuclei down, 5 minutes at 12K rpm, 4C.
14. Set up anti-TRPM7, NB 500-243 (primary antibody) aliquots into fresh tubes.
15. Transfer the sup into assigned tubes containing the pre-aliquotted primary.
16. Rotate for 2 hours at 4C on a rotator.
17. Add 0.015 ml of pre-washed Protein-G-Sepharose capturing beads. (Washing protocol provided by bead manufacturer)
18. Rotate 45 minutes at 4C.
19. Remove from 4C and place on ice.
20. Spin cells for 30 seconds at 12K rpm.
21. Aspirate off the supernatant.
22. Wash 3x by centrifuging for 1 minute at 12K rpm and aspirating and resuspending in 1 ml Lysis buffer.
23. Centrifuge for 1 minute at 12K rpm, 4C.
24. Aspirate off supernatant.
25. Dry pellet with Hamilton syringe (careful not to lose any beads).
26. Resuspend pellet with 0.075 ml (5X stock) reducing SDS-PAGE sample loading buffer.
27. Poke a hole in the top of each tube and boil the samples in a 95C for 8 minutes.
- \*\*At this point the samples are stable indefinitely at 4C.
28. Quick spin the condensation for 30 seconds at 12K rpm.
29. Load a 10% gel with the sample.
30. Run the gel overnight at 60V or 6 hours at 140V.
31. Transfer the proteins from the gel to a PVDF membrane (activated by methanol), at 1.4 constant Amp for 3 hours, 20 minutes.
32. Block the membrane in 5% NFDM for >1 hour at RT, gently shaking.
33. Incubate the membrane with the anti-TRPM7, NB 500-243 overnight @ 4C or for 2 hours @ RT, gently shaking.
34. Wash the blot 5X for 5 minutes, each time, in TBS-T (TBS + 0.05% Tween-20).
35. Incubate the membrane with the anti-rabbit IgG secondary antibody (dilution determined by manufacturer's suggestion), diluted in TBS-T + 0.5% NFDM for 45-60 minutes @ RT, gently shaking.
36. Wash the blot 4X for 5 minutes, each time, in TBS-T (TBS + 0.05% Tween-20).
37. Expose the membrane to the ECL reagents of choice.

200 ml 2X Lysis Buffer

20 ml 1X Lysis Buffer

10 ml 2X lysis buffer

8.8 ml dH<sub>2</sub>O

0.1 ml PMSF

0.1 ml Vanadate

111.5 mg Na-pyrophosphate

1 ml 10% Triton X-100

150 mM NaCl

80 mM NaF

20 mM Iodocetamide  
100 mM HEPES  
bring up to 200 ml w/ dH<sub>2</sub>O  
sterile filter, store at 4C

5X Reducing Sample Loading Buffer  
6 ml 1M Tris (pH 6.8)  
50 ml 50% Glycerol  
10 ml 20% SDS  
0.1% (w/v) Bromophenol Blue  
5 ml 2-Mercaptoethanol (BME)

Primary Antibody Diluent  
1X TBS  
0.05% Tween-20

\* Add BSA to a final concentration of 0.5% before using with the primary antibody





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### **Products Related to NB500-243**

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NB500-243PEP	TRPM7 Antibody Blocking Peptide
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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