Product Datasheet

Napsin A Antibody (TMU-Ad02) - BSA Free
NB110-68133

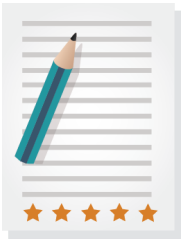
Unit Size: 0.1 ml

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

Reviews: 1 Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB110-68133

Updated 2/21/2025 v.20.1



NB110-68133

Napsin A Antibody (TMU-Ad02) - BSA Free

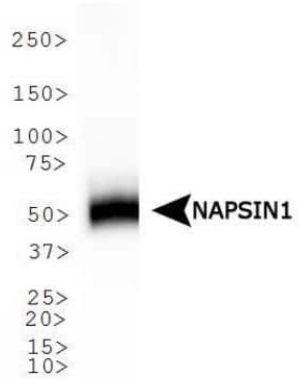
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	TMU-Ad02
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	Tris-Glycine and 0.15M NaCl

Product Description	
Host	Mouse
Gene ID	9476
Gene Symbol	NAPSA
Species	Human
Immunogen	Synthetic peptide corresponding to the N-terminus of human NAPSA [UniProt# O96009]

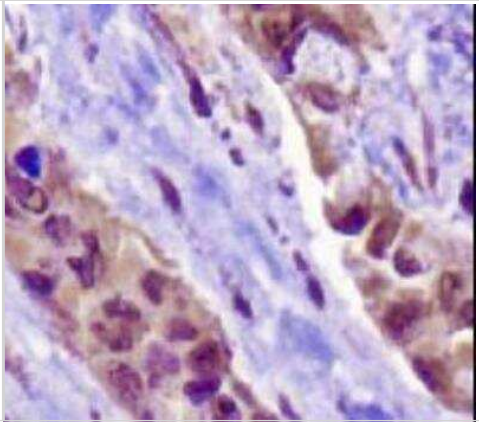
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5-1 ug/ml, Immunohistochemistry 0.5-1 ug/ml, Immunohistochemistry-Paraffin 0.5-1 ug/ml
Application Notes	This NAPSA antibody is useful for Western blot and Immunohistochemistry on formalin-fixed, paraffin embedded sections. In WB a band can be seen around 45-50 kDa.

Images

Western Blot: Napsin-A Antibody (TMU-Ad02) [NB110-68133] - Analysis of NAPSA expression in human lung using NB110-68133.



Immunohistochemistry-Paraffin: Napsin-A Antibody (TMU-Ad02) [NB110-68133] - Analysis of NAPSA on human lung adenocarcinoma using NB110-68133.



Publications

Wang M, Chen PP, Cai G GATA3 Expression in Primary Lung Carcinomas: Correlation with Histopathologic Features and TTF-1, Napsin A, and p40 Expression Human pathology 2023-01-23 [PMID: 36702357] (IHC-P, Human)

Details:
Dilution used in IHC-P 1:4,000

Hirano T, Gong Y, Yoshida K, Kato Y, Yashima K, Maeda M, Nakagawa A, Fujioka K, Ohira T, Ikeda N, Ebihara Y, Auer G, Kato H. Usefulness of TA02 (napsin A) to distinguish primary lung adenocarcinoma from metastatic lung adenocarcinoma. Lung Cancer;41(2):155-62. 2003-08-01 [PMID: 12871778] (IHC-P, Human)

Hirano T, Auer G, Maeda M, Hagiwara Y, Okada S, Ohira T, Okuzawa K, Fujioka K, Franzen B, Hibi N, Seito T, Ebihara Y, Kato H. Human tissue distribution of TA02, which is homologous with a new type of aspartic proteinase, napsin A. Jpn J Cancer Res;91(10):1015-21. 2000-10-01 [PMID: 11050472]

Procedures

Immunohistochemistry-Paraffin protocol for Napsin A Antibody (NB110-68133)
Napsin A Antibody (TMU-Ad02):
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.

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

Western Blot protocol specific for NAPSIN1 Antibody (TMU-Ad02)
Napsin A Antibody (TMU-Ad02):
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 30 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer 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 manufacturers instructions.

**Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

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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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