

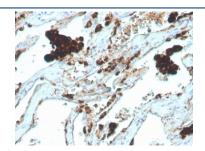
Recombinant Napsin A Antibody [clone NAPSA/4400R] (V8740)

Catalog No.	Formulation	Size
V8740-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8740-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8740SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

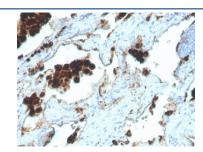
Recombinant RABBIT MONOCLONAL

Bulk quote request

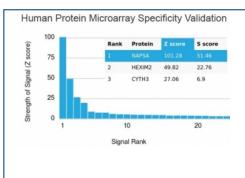
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	NAPSA/4400R
Purity	Protein A affinity chromatography
UniProt	O96009
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This recombinant Napsin A antibody is available for research use only.



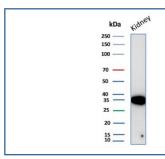
IHC staining of FFPE human lung adenocarcinoma with recombinant Napsin A antibody (clone NAPSA/4400R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant Napsin A antibody (clone NAPSA/4400R). These results demonstrate the foremost specificity of the NAPSA/4400R mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



Western blot testing of human kidney tissue lysate with recombinant Napsin A antibody (clone NAPSA/4400R). Expected molecular weight: 38-45 kDa depending on glycosylation level.

Description

Recombinant Napsin A antibody detects Napsin A, an aspartic proteinase encoded by the NAPSA gene. Napsin A is primarily expressed in type II pneumocytes of the lung and in renal tubules, where it participates in protein catabolism and surfactant protein maturation. Because of its restricted expression and strong association with pulmonary adenocarcinoma, Recombinant Napsin A antibody is widely applied in oncology, pathology, and pulmonary biology.

Napsin A belongs to the aspartic protease family and functions in the processing of surfactant protein B, which is essential for proper lung function. Its tissue-specific distribution makes it a valuable biomarker for distinguishing lung adenocarcinoma from squamous carcinoma and other tumor types. Unlike markers that lack specificity, Napsin A expression provides reliable evidence of pulmonary origin in metastatic lesions.

The Recombinant Napsin A antibody clone NAPSA/4400R provides consistent and reproducible recognition of this protease. Recombinant technology ensures lot-to-lot uniformity, critical for longitudinal studies. Clone NAPSA/4400R has been cited in peer-reviewed publications examining lung adenocarcinoma pathology and diagnostic marker panels. Its applications include immunohistochemistry, immunoblotting, and cytological assays.

Research using clone NAPSA/4400R has shown that Napsin A expression complements thyroid transcription factor 1 (TTF-1) as part of diagnostic panels for lung adenocarcinoma. In renal pathology, detection of Napsin A has aided in identifying primary renal neoplasms and differentiating them from metastatic tumors. Beyond oncology, studies have investigated the role of Napsin A in protein turnover within alveolar cells, linking it to surfactant homeostasis and pulmonary physiology.

NSJ Bioreagents supplies this Recombinant Napsin A antibody to support oncology, pulmonary biology, and pathology. Alternate terms include NAPSA antibody, aspartic proteinase 4 antibody, lung adenocarcinoma marker antibody,

surfactant processing enzyme antibody, and renal tubular marker antibody.

Application Notes

Optimal dilution of the recombinant Napsin A antibody should be determined by the researcher.

Immunogen

A portion of amino acids 50-150 from the human protein was used as the immunogen for the recombinant Napsin A antibody.

Storage

Store the recombinant Napsin A antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).