

## Mouse anti-Human Napsin A Monoclonal Antibody | anti-NAPSA antibody

Napsin A (Lung Adenocarcinoma Marker)

|                               |                      |                            |                                             |
|-------------------------------|----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA215411</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|----------------------|----------------------------|---------------------------------------------|

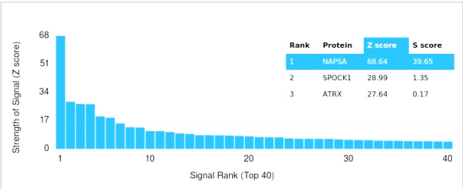
### PRODUCT SYNONYMS

Napsin A; Monoclonal Antibody; Napsin A (Lung Adenocarcinoma Marker); ASP4; Aspartyl protease 4; KAP; Kidney derived aspartic protease like protein (Kdap); NAP1; NAPA; Napsa; napsin A aspartic peptidase; Pronapsin A; SNAPA; anti-NAPSA antibody

### PRODUCT SPECIFICATIONS

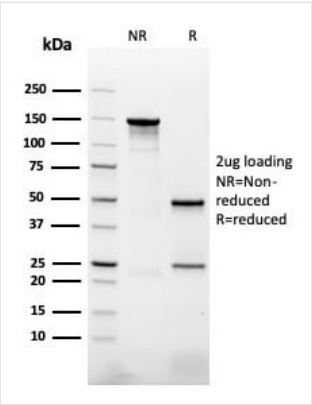
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|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isotype                                         | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clone Number                                    | NAPSA/3307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity                                     | Napsin is a pepsin-like aspartic proteinase connected with maturation of surfactant protein B. There are two closely related napsins, napsin A and napsin B. Napsin A is expressed as a single chain protein. Immunohistochemical studies revealed high expression levels of napsin A in human lung and kidney but low expression in spleen. Napsin A is expressed in type II pneumocytes and in adenocarcinomas of lung. The high specificity expression of napsin A in adenocarcinomas of lung is useful to distinguish primary lung adenocarcinomas from adenocarcinomas of other organs. |
| Purity/Purification                             | Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                     | 200ug/ml of Ab purified from rabbit anti-serum by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                                 | 420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Applicable Applications for anti-NAPSA antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Immunogen                                       | Recombinant Human Napsin A protein fragment (aa189-299) (exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Cellular Localization                           | Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hu-chromosome Location                          | 19q13.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Positive Control                                | Lung adenocarcinoma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                         | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                |

IMAGES



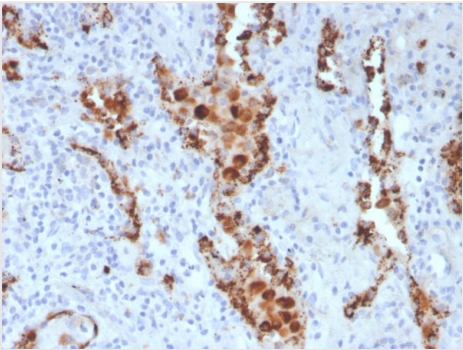
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Napsin A Mouse Monoclonal Antibody (NAPSA/3307). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



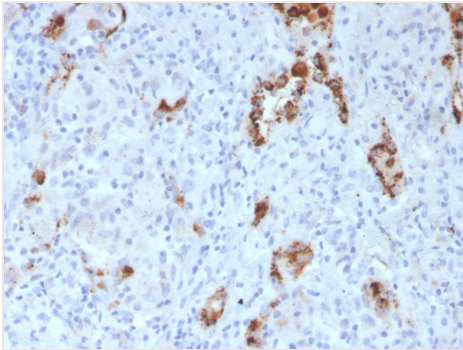
SDS-PAGE

SDS-PAGE Analysis Purified Napsin A Mouse Monoclonal Antibody (NAPSA/3307). Confirmation of Purity and Integrity of Antibody



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Lung Adenocarcinoma stained with Napsin A Mouse Monoclonal Antibody (NAPSA/3307).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Lung Adenocarcinoma stained with Napsin A Mouse Monoclonal Antibody (NAPSA/3307).

ADDITIONAL INFORMATION

|            |                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Bishop, JA et. al. Hum Pathol 41: 20-25   Ordenez, NG 2012 Adv Anat Pathol 19: 66-73   Ye, J et. al. Appl Immunohistochem Mol Morphol 19: 313-317 |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                              |
|----------------------------------|------------------------------|
| NCBI GI #                        | 4758754                      |
| NCBI GeneID                      | 9476                         |
| NCBI Accession #                 | NP_004842.1                  |
| NCBI GenBank Nucleotide #        | NP_004842.1                  |
| UniProt Accession #              | O96009                       |
| Molecular Weight                 | 37kDa                        |
| NCBI Official Full Name          | napsin-A preproprotein       |
| NCBI Official Synonym Full Names | napsin A aspartic peptidase  |
| NCBI Official Symbol             | NAPSA                        |
| NCBI Official Synonym Symbols    | KAP; Kdap; NAP1; NAPA; SNAPA |
| NCBI Protein Information         | napsin-A                     |

|                            |                         |
|----------------------------|-------------------------|
| UniProt Protein Name       | Napsin-A                |
| UniProt Gene Name          | <b>NAPSA</b>            |
| UniProt Synonym Gene Names | NAP1; NAPA; ASP4; Asp 4 |
| UniProt Entry Name         | NAPSA_HUMAN             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/napsin-a-antibody-clone-napsa-3307-immunohistochemistry-elisa/215411>