

## DESCRIPTION

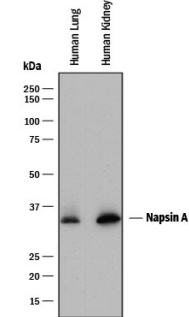
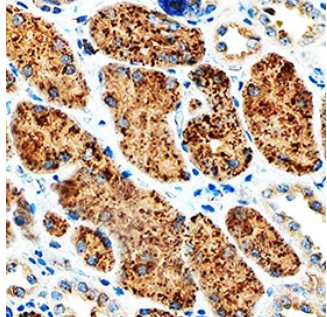
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Napsin A in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Rabbit IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human Napsin A Thr25-Gly420 Accession # O96009
<b>Formulation</b>	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	1:1000 dilution	See Below
<b>Immunohistochemistry</b>	0.5-10 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p> 	<p><b>Detection of Human Napsin A by Western Blot.</b> Western blot shows lysates of human lung tissue and human kidney tissue. PVDF membrane was probed with 1:1000 dilution of Rabbit Anti-Human Napsin A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8489) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Napsin A at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>Napsin A in Human Kidney.</b> Napsin A was detected in immersion fixed paraffin-embedded sections of human kidney using Rabbit Anti-Human Napsin A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8489) at 1 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rabbit HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS005) and counterstained with hematoxylin (blue). Specific staining was localized to lysosomes in epithelial cells in convoluted tubules. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C, as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after opening.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after opening.</li> </ul>

## BACKGROUND

Novel Aspartic Proteinase of the Pepsin Family or Napsin A is an aspartic proteinase that belongs to the peptidase A1 family and plays a role in pneumocyte surfactant processing. It consists of a 24-residue signal peptide, a 40-amino acid propeptide, the mature enzyme of 336 amino acids, and a C-terminal extension of 18 residues. Highest levels of Napsin A have been detected in adult lung (type II pneumocytes), fetal lung, and kidney tissues. Napsin A is also expressed at lower levels in adult spleen and at very low levels in peripheral blood leukocytes. Human napsin A shares 72.6% sequence identity with the mouse homolog.

## PRODUCT SPECIFIC NOTICES

\* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.