

For Research Use Only

# Napsin A Monoclonal antibody

Catalog Number: 60259-2-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 60259-2-Ig	<b>GenBank Accession Number:</b> BC017842	<b>Purification Method:</b> Protein G purification
<b>Source:</b> Mouse	<b>GeneID (NCBI):</b> 9476	<b>CloneNo.:</b> 1H7F2
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> O96009	<b>Recommended Dilutions:</b> IHC: 1:10000-1:60000 IF/ICC: 1:200-1:800 FC (Intra): 0.20 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Immunogen Catalog Number:</b> AG9721	<b>Full Name:</b> napsin A aspartic peptidase <b>Calculated MW:</b> 420 aa, 45 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, IF	<b>IHC :</b> human lung cancer tissue, human kidney tissue, human renal cell carcinoma tissue
<b>Species Specificity:</b> human	<b>IF/ICC :</b> HUVEC cells,
<b>Cited Species:</b> human	<b>FC (Intra) :</b> A549 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Napsin is found in two isoforms, napsin A and B, with highly homologous nucleotide sequences (91.2%). Napsin A appears to be a functional proteinase, predominantly expressed in lung and kidney. Napsin B is transcribed exclusively in cells related to the immune system and lacks an in-frame stop codon and is believed to be a pseudogene.(PMID:12698189). Napsin A is superior to TTF-1 in distinguishing primary lung ACA from other carcinomas (except kidney), particularly primary lung small cell carcinoma, and primary thyroid carcinoma. (PMID:22288963).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanyun Du	35017553	Nat Commun	IHC
Chengpan Li	40231208	Biomater Res	IF
Yan Li	38970088	Respir Res	IF

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

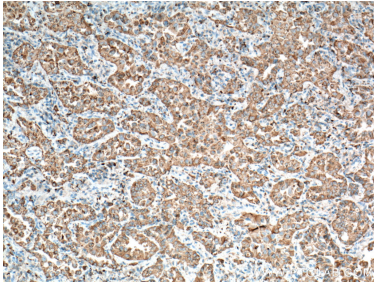
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

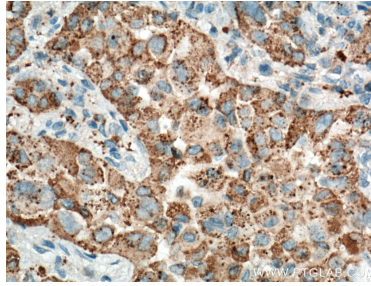
W: [ptgcn.com](http://ptgcn.com)

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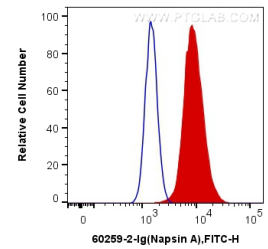
## Selected Validation Data



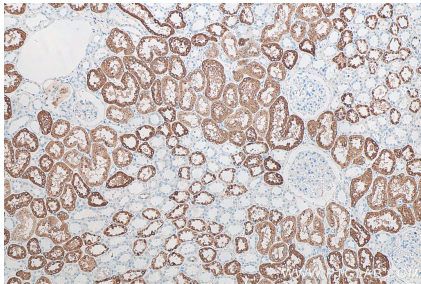
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60259-2-Ig (NAPSA antibody) at dilution of 1:4000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



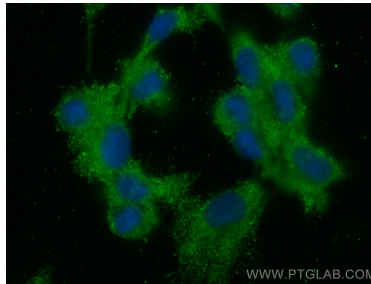
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60259-2-Ig (NAPSA antibody) at dilution of 1:4000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> A549 cells were intracellularly stained with 0.2 ug Anti-Human Napsin A (60259-2-Ig, Clone:1H7F2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 60259-2-Ig (Napsin A antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using Napsin A antibody (60259-2-Ig, Clone: 1H7F2 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).