

NAPSA Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1818a**Specification****NAPSA Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	O96009
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	45.4kDa KDa

Description

The activation peptides of aspartic proteinases plays role as inhibitors of the active site. These peptide segments, or pro-parts, are deemed important for correct folding, targeting, and control of the activation of aspartic proteinase zymogens. The pronapsin A gene is expressed predominantly in lung and kidney. Its translation product is predicted to be a fully functional, glycosylated aspartic proteinase precursor containing an RGD motif and an additional 18 residues at its C-terminus.

Immunogen

Purified recombinant fragment of human NAPSA (AA: 20-158) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

NAPSA Antibody - Additional Information

Gene ID 9476

Other Names

Napsin-A, 3.4.23.-, Aspartyl protease 4, ASP4, Asp 4, Napsin-1, TA01/TA02, NAPSA, NAP1, NAPA

Dilution

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

E~~1/10000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NAPSA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NAPSA Antibody - Protein Information

Name NAPSA

Synonyms NAP1, NAPA

Function

May be involved in processing of pneumocyte surfactant precursors.

Cellular Location

Secreted.

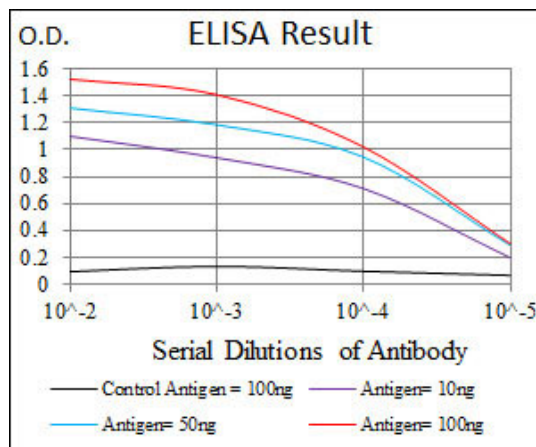
Tissue Location

Expressed predominantly in adult lung (type II pneumocytes) and kidney and in fetal lung. Low levels in adult spleen and very low levels in peripheral blood leukocytes

NAPSA Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



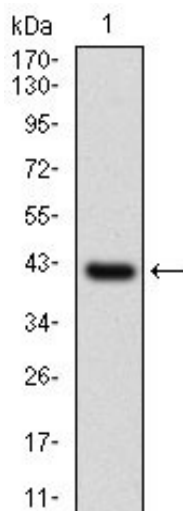


Figure 1: Western blot analysis using NAPSA mAb against human NAPSA recombinant protein. (Expected MW is 40.9 kDa)

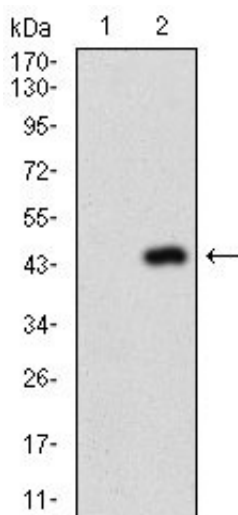


Figure 2: Western blot analysis using NAPSA mAb against HEK293 (1) and NAPSA (AA: 20-158)-hlgGfc transfected HEK293 (2) cell lysate.

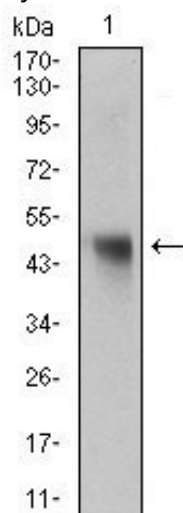


Figure 3: Western blot analysis using NAPSA mouse mAb against rat liver tissue lysate.

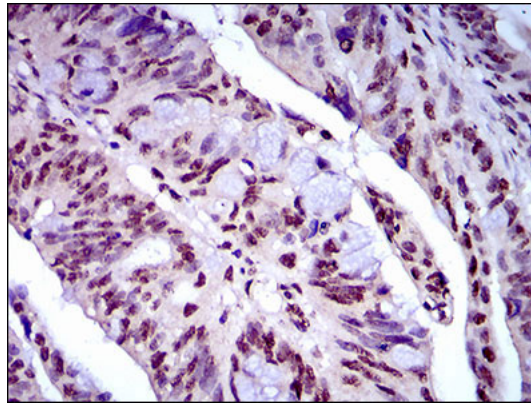


Figure 4: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using NAPSA mouse mAb with DAB staining.

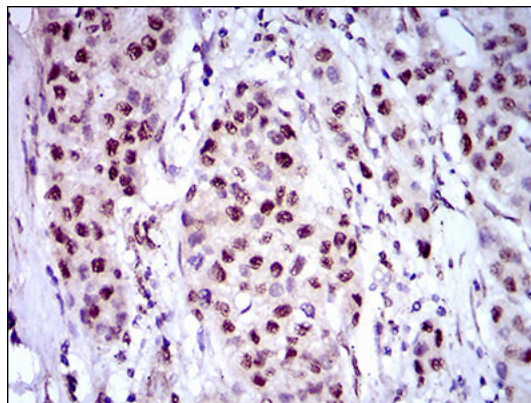


Figure 5: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using NAPSA mouse mAb with DAB staining.

NAPSA Antibody - Background

The activation peptides of aspartic proteinases plays role as inhibitors of the active site. These peptide segments, or pro-parts, are deemed important for correct folding, targeting, and control of the activation of aspartic proteinase zymogens. The pronapsin A gene is expressed predominantly in lung and kidney. Its translation product is predicted to be a fully functional, glycosylated aspartic proteinase precursor containing an RGD motif and an additional 18 residues at its C-terminus. ; ; ;

NAPSA Antibody - References

1. Lung Cancer. 2012 Jul;77(1):156-61.
2. Cancer Cytopathol. 2011 Oct 25;119(5):335-45.