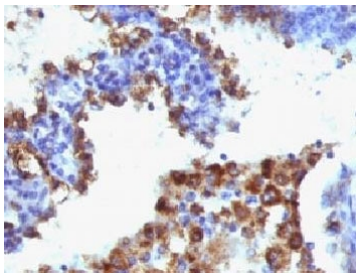
Napsin A Antibody Cocktail [clone NAPSA/1238 + NAPSA/1239] (V2997)

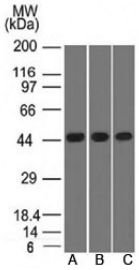
Catalog No.	Formulation	Size
V2997-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2997-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2997SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2997IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	NAPSA/1238 + NAPSA/1239
Purity	Protein G affinity chromatography
UniProt	O96009
Localization	Cytoplasmic
Applications	Flow Cytometry : 0.5-1ug/10^6 cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml for 60 min at RT Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Napsin A antibody cocktail is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human lung adenocarcinoma stained with Napsin-A antibody (NAPSA/1238 + NAPSA/1239).



Western blot testing of A) K562, B) HEK293 and C) A549 lysate using Napsin A antibody. Predicted molecular weight ~45 kDa.

Description

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.

Application Notes

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

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Amino acids 189-299 from the human protein were used as the immunogen for the mAbs in the Napsin A antibody cocktail.

Storage

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