

**PLUNC antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI12105****Specification**

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**PLUNC antibody - middle region - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">O9NP55</a>
Other Accession	<a href="#">NM_016583</a> , <a href="#">NP_057667</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Bovine, Guinea Pig, Dog
Predicted Host	Pig
Clonality	Rabbit
Calculated MW	Polyclonal 28kDa KDa

**PLUNC antibody - middle region - Additional Information****Gene ID** 51297**Alias Symbol** LUNX, NASG, SPLUNC1, SPURT, bA49G10.5, PLUNC, LPLUNC3**Other Names**

BPI fold-containing family A member 1, Lung-specific protein X, Nasopharyngeal carcinoma-related protein, Palate lung and nasal epithelium clone protein, Secretory protein in upper respiratory tracts, Short PLUNC1, SPLUNC1, Tracheal epithelium-enriched protein, Von Ebner protein HI, BPIFA1, LUNX, NASG, PLUNC, SPLUNC1, SPURT

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-PLUNC antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

PLUNC antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**PLUNC antibody - middle region - Protein Information****Name** BPIFA1**Synonyms** LUNX, NASG, PLUNC, SPLUNC1, SPURT**Function**

Lipid-binding protein which shows high specificity for the surfactant phospholipid dipalmitoylphosphatidylcholine (DPPC) (PubMed:<a

[25223608](http://www.uniprot.org/citations/25223608)). Plays a role in the innate immune responses of the upper airways (PubMed:[23499554](http://www.uniprot.org/citations/23499554), PubMed:[23132494](http://www.uniprot.org/citations/23132494)). Reduces the surface tension in secretions from airway epithelia and inhibits the formation of biofilm by pathogenic Gram-negative bacteria, such as *P.aeruginosa* and *K.pneumoniae* (PubMed:[23499554](http://www.uniprot.org/citations/23499554), PubMed:[23132494](http://www.uniprot.org/citations/23132494), PubMed:[27145151](http://www.uniprot.org/citations/27145151)). Negatively regulates proteolytic cleavage of SCNN1G, an event that is required for activation of the epithelial sodium channel (ENaC), and thereby contributes to airway surface liquid homeostasis and proper clearance of mucus (PubMed:[24124190](http://www.uniprot.org/citations/24124190), PubMed:[24043776](http://www.uniprot.org/citations/24043776)). Plays a role in the airway inflammatory response after exposure to irritants (PubMed:[11425234](http://www.uniprot.org/citations/11425234)). May attract macrophages and neutrophils (PubMed:[23132494](http://www.uniprot.org/citations/23132494)).

### Cellular Location

Secreted. Note=Apical side of airway epithelial cells. Detected in airway surface liquid, nasal mucus and sputum

### Tissue Location

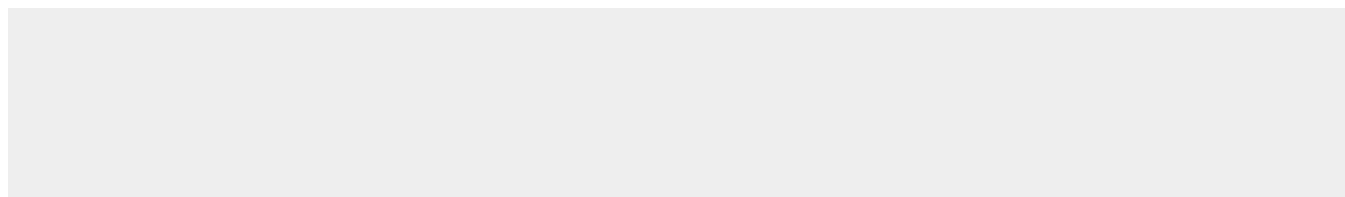
Highly expressed in lung, upper airways and nasopharyngeal regions, including trachea and nasal epithelium (at protein level) (PubMed:11018263, PubMed:11251963, PubMed:12409287, PubMed:11425234, PubMed:26559477). Specifically expressed in the secretory ducts and submucosal glands of tracheobronchial tissues (at protein level) (PubMed:12409287, PubMed:11425234). Also expressed in the eye where it is detected in lacrimal gland, eyelid, conjunctiva and cornea (at protein level) (PubMed:26559477). Specifically localizes to epithelial cell layers in cornea, eyelid (basal epithelium) and conjunctiva (at protein level) (PubMed:26559477). Detected within acinar cells and ducts in the lacrimal and Meibomian glands (at protein level) (PubMed:26559477). In lung, shows highest expression in the trachea and progressive decrease from proximal (bronchial) to distal (bronchiolar) airways (PubMed:12409287). Also expressed in lung cancers and some other types of cancer (PubMed:11251963)

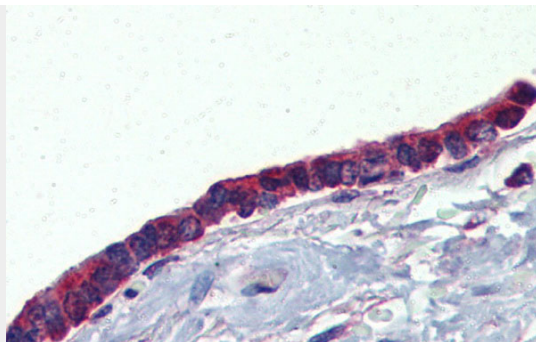
## PLUNC antibody - middle region - Protocols

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

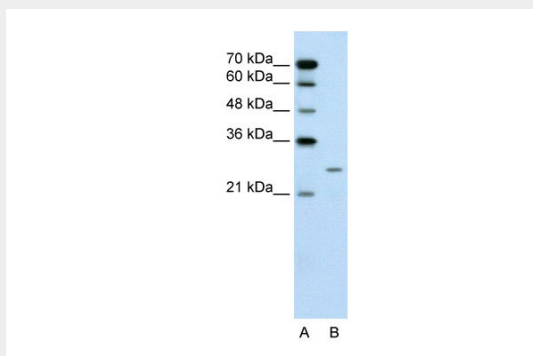
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## PLUNC antibody - middle region - Images





Immunohistochemistry with Human Lung, respiratory epithelium tissue at an antibody concentration of 5.0 µg/ml using anti-PLUNC antibody



WB Suggested Anti-PLUNC Antibody Titration: 0.2-1 µg/ml  
Positive Control: Jurkat cell lysate

### **PLUNC antibody - middle region - References**

Zhou, H.D., (2006) Mol. Immunol. 43(11), 1864-1871  
Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.