

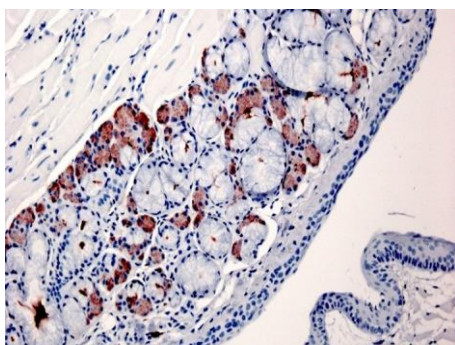
## CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

<b>Product name</b>	LPLUNC1, Mouse, pAb		
<b>Catalog number</b>	HP8044-20UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	200 µl	<b>Amount</b>	20 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Rabbit Ig	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Affinity
<b>Storage</b>	4°C		

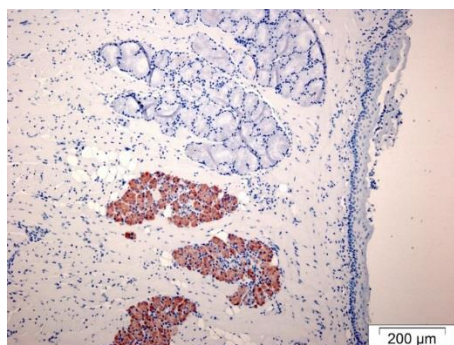
### Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #		1						2
Yes		•						•
No								
N.D.	•		•	•	•	•	•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot



IHC-P: Tissue sections showing the staining of seromucous glands in the roof of the soft palate. Image courtesy of Dr. Colin D. Bingle from the University of Sheffield.



IHC-P: Tissue sections showing the staining of the serous glands of the proximal tongue. Image courtesy of Dr. Colin D. Bingle from the University of Sheffield.

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- W: A reduced sample treatment and SDS-Page was used. The band size is 50 kDa (Ref.2).
- IHC-P: Tissue sections were pretreated with tri-sodium citrate buffer for 8 minutes in a microwave oven followed by rinsing in PBS. Tissue sections were fixed in 3 % H<sub>2</sub>O<sub>2</sub> in methanol for 20 minutes (Ref.1).
- Positive control: Nasopharyngeal tissues.

### General Information

**Description** The polyclonal antibody recognizes mouse LPLUNC1 (Long palate, lung and nasal epithelium clone 1). LPLUNC1, also known as BPI fold-containing family member B1 ( BPIFB1), is a protein present in the trachea, the epithelium and submucosal glands of larger airways and some smaller airways. It is also found in minor mucosal glands of the nasal cavity and more abundantly in minor, compared with major, salivary glands. Currently, the function of LPLUNC1 is unknown. It may be involved in the innate immune response to bacterial exposure in the mouth, nasal cavities, and lungs. Recently, a significant association between a specific LPLUNC1 SNP (single nucleotide polymorphism), located in the promoter region of the gene, and susceptibility to infection by the cholera-causing bacterium *Vibrio cholera* has been identified. However, its precise role in susceptibility to infection and/or the development of disease needs to be further elucidated.

**Immunogen** Generated against epitope 268-279: LMETTPDRAPFS

<b>Aliases</b>	BPI fold-containing family member B1, BPIFB1
<b>References</b>	<ol style="list-style-type: none"> <li>1. Musa M, Wilson K, Sun L, Mulay A, Bingle L, Marriott HM, LeClair EE, Bingle CD. Differential localisation of BPIFA1 (SPLUNC1) and BPIFB1 (LPLUNC1) in the nasal and oral cavities of mice. Cell Tissue Res. 2012, 350:455.</li> <li>2. Bingle L, Wilson K, Musa M, Araujo B, Rassl D, Wallace WA, LeClair EE, Mauad T, Zhou Z, Mall MA &amp; Bingle CD. BPIFB1 (LPLUNC1) is upregulated in cystic fibrosis lung disease. Histochemistry and Cell Biology 2012, 138: 749</li> </ol>
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Brenda Teunissen

Date  
15/01/2021

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).